

<110> Ruben et al.

<120> 62 Human Secreted Proteins

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<140> Unassigned

<141> 2000-10-10

<150> PCT/US00/08979

<151> 2000-04-06

<150> 60/128,693

<151> 1999-04-09

<150> 60/130,991

<151> 1999-04-26

<160> 344

<170> PatentIn Ver. 2.0

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1047

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&lt;222&gt; (1436)

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<210> 16  
 <211> 1257  
 <212> DNA  
 <213> Homo sapiens

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<210> 17  
 <211> 2163  
 <212> DNA  
 <213> Homo sapiens

<400> 17

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ggg						2163

<210> 18  
 <211> 703  
 <212> DNA  
 <213> Homo sapiens

<400> 18						
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gacagttaac	agtgggtgtga	catccagaga	gcagctgggc	tgctcccgcc	ccagcccggc	180
ccagggtgaa	ggaagaggca	cgtgctcctc	agagcagccg	gagggagggg	ggaggtcgga	240
ggtcgtggag	tggtttgtgt	atcttactgg	tctgaaggga	ccaagtgtgt	ttgttgtttg	300
ttttgtatct	tgtttttctg	atcggagcat	cactactgac	ctgttgtagg	cagctatctt	360
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gttgagctgg	caggggaggg	gctgagaggg	tgggggctgg	aaccctccc	cgggaggagt	540
gccatctggg	tcttccatct	agaactgttt	acatgaagat	aagataactca	ctgttcatga	600
atacacttga	tgttcaagta	ttaagacct	tgcaatattt	tttacttttc	taataaacat	660
gtttgttaaa	acaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaa		703

<210> 19  
 <211> 774  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (760)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (763)  
 <223> n equals a,t,g, or c

<400> 19

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acaatgctgg	aagtgggcag	cagtcagtga	gtgtcaacaa	tgaacacaat	gtggccaatg	180
ttgacaataa	caacggatgg	gactcctgga	attccatctg	ggattatgga	aatggctttg	240
ctgcaaccag	actctttcaa	aagaagacat	gcattgtgca	caaaatgaac	aaggaagtca	300
tgccctccat	tcaatccctt	gatgcactgg	tcaaggaaaa	gaagcttcag	ggtaagggac	360
caggaggacc	acctcccaag	ggcctgatgt	actcagtcaa	cccaaacaaa	gtcgaatgacc	420
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gccactatgg	atttagtcat	ctgaatatgc	tgtgcagaaa	aaatatgggc	tccagtgggt	660
tttaccatgt	cattctgaaa	tttttctcta	ctagttatgt	ttgatttctt	taagtttcaa	720
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<210> 20  
 <211> 1549  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (873)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (895)  
 <223> n equals a,t,g, or c

<400> 20

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gctgcttggg	ttggcctcat	acatcaggaa	gaaacagcca	tcatctcctc	tggcaaacac	600
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cttctactca	aataaagtcg	taacaataag	gaaaaaaaaa	aaaaaaaaaa		1549



<210> 21  
 <211> 1189  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
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 cctcactgcc tgggctggac actgctgaaa gttaaagccac cattgcagac ctgatcctgt 240  
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<210> 22  
 <211> 2460  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (172)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2457)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2459)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2460)  
 <223> n equals a,t,g, or c

<400> 22  
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 gccagagcgg tgtccagcgc ggtgtagccg cagccggcgc tgtcaggcgc ancaacgggc 180  
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<210> 23  
 <211> 4386  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3477)  
 <223> n equals a,t,g, or c

<400> 23						
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&lt;213&gt; Homo sapiens

&lt;400&gt; 29

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&lt;210&gt; 30

&lt;211&gt; 1012

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 30

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&lt;210&gt; 31

&lt;211&gt; 1886

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 31

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 <213> Homo sapiens

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 <222> (1934)  
 <223> n equals a,t,g, or c

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 <213> Homo sapiens

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2623

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 <211> 1461  
 <212> DNA  
 <213> Homo sapiens

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 agttcccggc tgatctacac actgcgctgc ggggtctttg ccaccttccc cattgtgctg 180  
 gggatcctgg tgtacgggct gagcctgtta tgcttttctg ccttcgggcc ctttggggag 240  
 ccacggcggg aggtggagat ccaccggcga tatgtggccc agtcgggtcca gctctttatt 300  
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 tcaaaaaaaaa aaaaaaaaaa a 1461

<210> 35  
 <211> 953  
 <212> DNA  
 <213> Homo sapiens

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 aatgccatta tttagtggat ttggacacca tgagagaaac accccgggag ccaaaatatt 600  
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<210> 36  
 <211> 1340  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (851)  
 <223> n equals a,t,g, or c

<400> 36  
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 aaaaaaaaaa aaaactcagag 1340

<210> 37  
 <211> 2199  
 <212> DNA  
 <213> Homo sapiens

<400> 37  
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 gcctcccttc tggtcgcca cacttggttc atttgtgtcg ctgccatcca ggacaatcgc 180  
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<210> 38  
 <211> 989  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (955)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (979)  
 <223> n equals a,t,g, or c

<400> 38						
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aaaaaaaaa	aaaaaaaaa	aaaaaaaaa				989

<210> 39  
 <211> 2048  
 <212> DNA  
 <213> Homo sapiens

<400> 39						
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cacggcgc						2048

<210> 40  
 <211> 2694  
 <212> DNA  
 <213> Homo sapiens

<400> 40						
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<223> n equals a,t,g, or c

<220>

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<211> 2590

<212> DNA

<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<400> 47						
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ggttttgttc	attttcctta	tatttaagga	aacaaccaga	ccagcagctt	tctgtgtctc	180
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<210> 48  
 <211> 940  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (726)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (727)  
 <223> n equals a,t,g, or c

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940

<210> 49

<211> 760

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50

<211> 2479

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (240)

<223> n equals a,t,g, or c

<400> 50

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tcttcacctg	tttctttctg	ggctgttttt	gtttgtttgc	ttttacttta	taaaataaga	420
acagtgaact	acctattatg	cagatctcct	gcctttcata	gtgctttata	aactgtgaag	480
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 <212> DNA  
 <213> Homo sapiens

<400> 51						
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<210> 52  
 <211> 1677  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (537)  
 <223> n equals a,t,g, or c

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 <211> 1892  
 <212> DNA  
 <213> Homo sapiens

<400> 53						
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<210> 54  
 <211> 1646  
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1544)

<223> n equals a,t,g, or c

<400> 54

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tgggtcaagt	ttgagtttag	gttctgatat	ctgctaattt	tctgcctcaa	gggtgggaaat	240
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<210> 55

<211> 1558

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1443)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1460)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1494)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1537)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1543)

<223> n equals a,t,g, or c

<400> 55

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tgaatattgt	ctttccatcc	actaccagca	cgggggcgtr	atatgcacac	aggtccacaa	360
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<210> 56

<211> 753

<212> DNA

<213> Homo sapiens

<400> 56

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aagcctaata	actaatttaa	agaaaagcaa	aacttatact	cttccacca	aagcttccac	360
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<210> 57

<211> 1769

<212> DNA

<213> Homo sapiens

<400> 57

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<210> 58  
 <211> 626  
 <212> DNA  
 <213> Homo sapiens

<400> 58						
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taaaaaaaa	aaaaaaaaa	aaaagg				626

<210> 59  
 <211> 634  
 <212> DNA  
 <213> Homo sapiens

<400> 59						
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aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaa			634

<210> 60  
 <211> 627  
 <212> DNA  
 <213> Homo sapiens

<400> 60  
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tgtaatccag aatattagga acaagttctt aaactcaggt ttacttttca ctggtgtttg 540  
catgtgtggg ggacaaaagt ttatgttctt gtggcaggaa actgtgggat ctgcagcatg 600  
gaggagttta aaaaaaaaaa aaaaaaa 627

<210> 61  
<211> 632  
<212> DNA  
<213> Homo sapiens

<400> 61  
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ggctgcctct accgcctgcg ggcgctgggc gagcggcaca ccatggacct cactgtggag 180  
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aggcccagag gtggaaaaaa aaaaaaaaaa aa 632

<210> 62  
<211> 706  
<212> DNA  
<213> Homo sapiens

<400> 62  
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aagtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 706

<210> 63  
<211> 1345  
<212> DNA  
<213> Homo sapiens

<400> 63  
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aatttgcaaa	aaaaaaaaaa	aaaaa				1345

<210> 64  
 <211> 773  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (11)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (51)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (53)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (69)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (112)  
 <223> n equals a,t,g, or c

<400> 64						
aanccagctt	ntggcccatg	gtttacgccca	aaagcttcgaa	atttaccctt	ncncttaagg	60
gaaccaaaang	ctggactcca	accgcgggtg	ccggccgctc	tagaactagt	gnatcccccg	120
gggctgcagg	aattcggcac	gagcaacata	gtgagccttg	tctctacaaa	aaattttaaa	180
ggtagcgag	gcatgggtggc	gcgcgcctgt	gatctcagct	gcttggggagg	ctgaagtggg	240
aggatccctt	gagcccagga	gtttgaggct	gcagtgatca	tgccattctg	ggcaacagag	300
tgaaacgctc	tcagaaaaga	aaatgaaaaa	acctctacat	gtggctcttc	tgctaattctc	360
tctgaccttc	ctattcacca	ccctccccac	tgcccactct	gctccatcct	caccagcctc	420
cttgcacatt	ctcagattga	gggggcatct	catgtgtgtc	ttccctttga	aaatgatgcc	480
aacactcatt	tgacgtacac	gtgcaaattgt	ttttgtttgtg	gaactatcct	tctattcttg	540
ttttatgaaa	cattggccatc	ggggatagat	atattacttt	taaaaattgt	atttttagagc	600
cctgtgtggg	gctcatgcct	gtaatcccag	cacttttggga	agctgaggtg	ggtggatcac	660

ttgagggttag	gagtttcgaga	acagctagac	caacatgggtg	aaaccccatc	tctactaaaa	720
atacagaaat	tagccagggtg	tggtggcacg	tgctgtaat	cacagctact	cga	773

<210> 65  
 <211> 1569  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (282)  
 <223> n equals a,t,g, or c

<400> 65						
gcccacgcgt	ccgcttcctc	caaggctccc	ccagatttac	cagtgcgcgc	cttccctaag	60
tatcaactta	gccgtacttt	gaactctggc	ccctcaggtt	tcaaggggac	ggccttgtct	120
gggatcagct	ctgtctgggg	aaagaagctg	caccagcctc	tgaatagcag	gctgagtcac	180
ttgtttcttg	tgctttgagt	cagttctctc	atcagctctc	ctcctaagcc	agtgttatta	240
cctccagtaa	agatggaaaa	gttgggggtc	agagaaggct	anaaacagac	agcctgtctg	300
gtcctgtctt	ttctcctggc	acgagcaggt	tcaccaatct	ttaaaatcca	aataatatct	360
atggtacagt	ggaagaactg	gccagagagt	ctggaagttt	gggttctggg	cctggctgtg	420
ccactgactc	actgtgacct	tggtgacctg	tgctgtgaag	acatttccca	agtgcctcat	480
gtagccagc	aaatctgacc	cacaaggcct	ggaaagaggt	gattgttagg	ttgcgcagag	540
gtggtcttat	ccagctcagc	ttcccctggg	acccaccgtg	ggacctgagg	cagaactggg	600
gtggacttgg	cctcctccat	ggcacaccgg	ctgcagatac	gactgctgac	gtgggatgtg	660
aaggacacgc	tgctcagggt	ccgccacccc	ttaggggagg	cctatgccac	caaggcccgg	720
gcccattggg	tgaggttggg	gcctcagacc	ctggaacaag	gcttcaggca	ggcatacagg	780
gctcagagcc	acagcttccc	caactacggc	ctgagccacg	gcctaaccct	ccgccagtgg	840
tggtctggatg	tggtcctgca	gaccttccac	ctggcgggtg	tccaggatgc	tcaggctgta	900
gcccccatcg	ctgaacagct	ttataaagac	ttcagccacc	cctgcacctg	gcaagggtgt	960
ggatggggct	gaggacaccc	tgagggagtg	ccgcacacgg	ggctctgagac	tggcagtgat	1020
ctccaacttt	gaccgacggc	tagagggcat	cctggggggc	cttggcctgc	gtgaacactt	1080
cgactttgtg	ctgacctccg	aggctgtctg	ctggcccaag	ccggaccccc	gcattttcca	1140
ggaggccttg	cggcttgctc	atatggaacc	agtagtggca	gcccattgtt	gggataatta	1200
cctctgcgat	taccaggggc	ctcgggctgt	gggcatgcac	agcttctctg	tggttggccc	1260
acaggcactg	gaccccggtg	tcagggattc	tgtacctaaa	gaacacatcc	tcccctctct	1320
ggccccatct	ctgcctgccc	ttgactgcct	agagggctca	actccagggc	tttgaggcca	1380
gtgaggggaag	tggtctgggc	ctaggccatg	gagaaaaac	ttaacaaacc	ctggagacag	1440
ggagccccct	ctttctccac	agctctggac	ctttccccc	ctccctgcgg	cctttgtcac	1500
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aaaaaaaaa						1569

<210> 66  
 <211> 2657  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (179)  
 <223> n equals a,t,g, or c

<400> 66						
aatatctcat	gaatgagttt	gaagtttgct	tggattttga	aatgaatggg	actttgtctt	60
tattactaat	tcaccaaatt	tggtgagcgc	aaaagcaatt	aatgtagttt	aagtatttag	120
tatgtacagt	tctctgtgtt	aacagctgag	aagtaagcaa	ccttttctga	ctgcataatg	180
gtgtattcct	cttttgagtc	cccataatat	tttataaatt	gtaatgcccc	atcttgtact	240
acagttgtct	tattcgtatt	gtttataaac	tttgagggtt	aggactgggt	cttactcatc	300
tttatgtgcc	ttccttatgc	ttcaaagaat	ttaccatcta	atggaagaga	acatttgcga	360
gttgggtcca	taccaagctc	cttccacata	ctctactcat	ctgaactttg	aatgcagaat	420
ctttaaattg	caacccccca	tactaaggct	aagaaagaac	ttaatgggaa	ttaatctcca	480
cccattagct	ttaccctgac	atcaggattg	ccaaatccaa	tggaactctg	tctattctta	540
cgtgacttct	gctggaaaat	gcgaatgttg	accatcctgc	cacttggaac	tctcttccca	600
ctcctcacat	tgcttttctg	accactggaa	gttcttctct	tttcttcttg	agtacctttt	660

gctgtctggg	acttgttagat	aatgggtgttt	cctaggggctc	cctccaggggc	cctctgcctc	720
actaactgga	tatacttttc	ctgagcaaat	cccaggaaac	ttgcgtcaga	ccgtgacttc	780
aaatacaggt	tgataaatgc	taaactgtct	ccaaaccaga	cttcaccta	gcctccacac	840
ccagacaccc	aactgctatg	gatcaacttt	ttagaatatc	ctcacttcaa	actgacctta	900
cctaaaaataa	tgactttttc	ccccataat	tgccccctgt	atattcctta	tttctgaatg	960
gtacctccta	gctatataga	ttatctgagg	agcttactga	aatgctgatt	ctgaagataa	1020
ggggcatggc	tttaagattc	tgtattttctg	gcgagtaccc	aactgggtgct	catgctgctg	1080
attgagaacc	acttctgaat	atagcaaggc	tgtaaattat	ccactacgtg	ccctcgtaat	1140
tgtcttagtt	caagcccaga	ttattgtagt	agacttagta	tttctttgcc	ttagttgatc	1200
tgtgaccctt	ccaatatcta	ttccacactg	ttgcctaagt	ggccttagta	aaattcaagt	1260
ctgggttattt	tattcccctg	cttggaaattt	ctcaatgtag	aatgaaactc	attcagcatt	1320
aacacatagg	cccttcttga	tctgacatcg	tgtttctcta	gttagactaa	agaatcccca	1380
ctatgaagtt	gtttcatccg	taagtacctt	tgaaccaga	agcccccttt	ctcatatgtt	1440
tctcattcct	gtttgccctt	cagagttcag	cttttagttgc	taaaacattc	agacatccct	1500
ctgacttaga	tccccacta	ctgtttttct	gtgagaagca	gctatgcata	attcctcttc	1560
aacacagtag	ttcttgaaat	tttgcaggcc	tctcctggaa	aggaggaaat	gacttctctg	1620
actttgtatg	atgcttattt	gtggatgaat	gggcaaggga	aaaaatgaag	gaacaagtga	1680
atgaacagta	tgggagtagt	agaaaaggta	taaattgggt	atagttgaga	aaaggattca	1740
aattgatctt	tggttcgaga	gacaatttca	tctttctgat	gaatttaaag	tgtagtcttt	1800
gaaccagctg	ggcttaatta	tgtaaagtgt	tgagcctgag	ataagcacac	aatcacaaaa	1860
cctacccaaa	caagtttttt	gtttcacttc	atctcttata	aaacaatgtt	ctaaagtaag	1920
tgatagggat	gctcatcatt	ctgctacctt	ttatcacaat	gaaaacaatc	ataaatagta	1980
cacaggaaag	gtgagaaata	gcggatagtt	cttatttcat	agtactgtat	atggaaataa	2040
accaaatttg	ctcatagaga	tactatttta	ttacctcaaa	aatatataaa	aatgaaaacg	2100
ttatgaaaat	atttttaaat	gggattttaa	aataattgag	aacatcacag	caatttagaa	2160
tactaaagag	catagcttta	aaatgatagt	gctgagaact	ccccacctct	acccccaccac	2220
ctgtaggctt	ctttgacaac	ttacaaatgt	tctctagttt	gtatctagaa	tcacttatat	2280
ctttcaaata	aaccaacttt	gtgaamaaaa	aaaaaaaaaa	aaaagggcgg	ccgctctaga	2340
ggatcccaagc	ttacgtacgc	gtgcatgcga	cgtcatagct	cttctatagt	gtcacctaaa	2400
ttcaattcac	tgcgcgtcgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	2460
cttaatcgcc	ttgcagcaca	tccccctttc	gccagctggc	gtaatagcga	agaggcccg	2520
accgatcgcc	cttcccaaca	gttgcgcgag	ctgaatggcg	aatgggacgc	gccctgtagc	2580
ggcgcattaa	gcgcggcgk	tgtggtggtt	acscgcagcg	tgaccgttac	acttgccagt	2640
ggccctagcg	gcccgcct					2657

<210> 67  
 <211> 1355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1327)  
 <223> n equals a,t,g, or c

<400> 67						
gccccctgctg	gatggcactg	tgggtaacct	gcatectttc	actgtgcaca	tggttctcat	60
gccttttacgg	agcagactcc	ttggcaaata	aatgcctcag	tgcaggagcc	acacgcaagg	120
catttccctt	ctgtgtcctc	tttcgtgate	ttgaggtggg	acttgggttt	gaaggctttg	180
tactcacct	ggcatgcaaa	ctctttttgtt	attgtgaact	ctctgacagt	gctttaagtc	240
tggggcacga	ataaataatt	ttccacacag	ctcacactg	tagggccttac	atccagtgtg	300
tgtgcgttat	gtctgtgtgt	gtatccttat	ttttttgaga	cggagtctcc	ctctgtcacc	360
caggctggag	tgcagtggcg	cgatctcggc	tactgcaac	ctccgcctcc	tgggttcaaa	420
cgattctcct	gcctcagcct	cccagatgag	tgggattaca	ggcaccacc	amcacgcctg	480
gctaattttt	gtatttttag	tagagatggg	gtttctccat	gttggtcagg	ctggctctga	540
tttccctgac	ttgtgtatccg	cctgcctcgg	ctcccaaag	tgctgtgatt	ataggtgtga	600
cacaccacac	ccggtcctgt	gtatgttttg	agacggagtc	tcactctgtc	accaggctg	660
aagtgcagtg	gcaggatctc	ttctcactgc	aacctccacc	tctggggctc	aagtgattct	720
cctgcctcag	cctcccaagt	agctgggtatt	tcagacttgc	accatgatgc	ctggctactt	780
tttatatttt	tagtagagac	ggagttttcac	cagcctgggt	tcgaactcct	gacctcaagt	840
gatccaccca	ccttggcctc	ccaaaagtact	gggattacag	acatgagcca	tcacgcccg	900
cccctaagtg	gatttttagg	cattcttttca	gggtgggcctc	tgtggtgaaa	cctttttgtgc	960
acatttcaca	aacggcttct	ccgctgtgtg	gcatttctca	gctttctcca	ctgccttcac	1020
aggaaacttc	ttcccgcact	cctggccgac	gtcgtctcct	aggtgactgt	gcggcaaaag	1080
ctcagacctc	aggacactgg	tggctgttgt	ccagcctagt	gtctgcttac	cccgcactca	1140

tcccgtagtc	acacgtgaag	gcttgagggg	tctggaactt	cctggccgta	gcaatggact	1200
ttctgaactt	tcttgctctt	tcagaattgc	gttttgaccc	tgagtgtggt	cgtgggtgac	1260
tcgccggcct	cccgccccgg	ggtgtggtgc	ctttgttctg	agtcacacac	agtgccatca	1320
tcctgancct	agcwtctttc	agatcaccct	ctcga			1355

<210> 68  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (927)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (929)  
 <223> n equals a,t,g, or c

<400> 68						
tgtggaattg	tgagcggata	acaatttcac	acaggaaaca	gctatgacca	tgattacgcc	60
aagststamt	acgggaacct	ctactatagg	kaaagctggg	acgcctgcag	gtaccggtec	120
ggaattcccc	ggtcgaccca	cgcgctccga	aaaatatctt	tatccaagct	cattgtctgt	180
tttctcagta	cctggttacc	atttgtaact	cttcaggtaa	tcattgtttt	mcttaaagtt	240
cagattccag	catatattga	gatgaatatt	ccctgggtat	actttgtcaa	tagttttctc	300
attgctacag	tgtattgggt	taattgtcac	aagcttaatt	taaaagacat	tggtattacc	360
ttggatccat	ttgtcaactg	gaagtgtctg	ttcattccac	ttacaattcc	taatcttgag	420
caaattgaaa	agcctatata	aataatgatt	tggttaatat	attaattaaa	agttacagct	480
gtcataagat	cataatttta	tgaacagaaa	gaactcagga	catattaaaa	aataaaactga	540
actaaaacaa	cttttgcccc	ctgactgata	gcatttcaga	atgtgtcttt	tgaagggcta	600
tgataccagt	tattaaatag	tgtttttatt	taaaamcaaa	ataattccaa	gaagttttta	660
tagttattca	gggacactat	attacaaata	ttactttggt	attaacacaa	aaagtataaa	720
gagttaacat	ttggctatac	tgatgtttgt	gttactcaaa	aaaaactact	ggatgcaaac	780
tgttatgtaa	atctgagatt	tcactgacaa	ctttaagata	tcaacctaaa	cattttttatt	840
aatgtttcaa	atgaaagcaa	aaaaaaaaaa	aaaaaaaaaa	aagggcgggc	gctctagagg	900
atccaagctt	acgtacgcgt	gcatgcnana	acataactcg	aagtt		945

<210> 69  
 <211> 1799  
 <212> DNA  
 <213> Homo sapiens

<400> 69						
acccacgcgt	ccgtaaaatc	tttcgctcat	tttataatca	agtagtttat	ttttgttggt	60
gtatatattc	caggtactag	atccctatca	gatttggtta	tattttcttc	cattctgcag	120
gttgtctttt	cattttctct	ataatgtcat	ttgatgcaga	aaagttttta	attttgaagt	180
tcattttaca	gtttttctct	ttgttgatag	tgcttttttt	ggtgttatat	ctgagaatct	240
gttgtcatac	ccaaggtcat	gaagatttac	ctgtatgtta	tcttctaaga	gttttatgat	300
ttcagctctt	atgtaggttg	tttgctgatt	tttaagttat	ttttgtataa	ggtacgagga	360
ggaaggggtc	cagcctcatt	tttctgcatg	tggtatacca	gttgtcttag	caccatttgt	420
tgaatagtct	gttctttccg	cattgagtgg	tcttcatgtg	cagactgtta	ttgctgtgca	480
tgtgtatatc	tgtttatctg	gaattcactt	tttaagaact	tatatgggcc	aggtgcagtg	540
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gagtttgaga	tgagcctgta	caacatagca	agaccttgct	tcttcaaaaa	aaattttaaa	660
aactagctga	gtgtggtagt	acctgcctgt	agtcctacct	actcaggagg	ctgaggcaga	720
gggattgcat	gggcctggaa	gtttagggca	acagtgcagt	atgatcacac	cgccattcca	780
gcctgggcaa	cagagcaaga	ccttgctctc	tttaaccagt	tgtgcctagt	gttccattat	840
tggaaacacta	agcttggtgg	agttattttt	atcctgtctc	aggtcattgc	caaggtctga	900
tttttcacaa	aaaaagtttg	caaccttcgg	cataaatggg	ttaaaaaaag	gaaaagctgt	960
atatgaaggt	ctttggccac	agtttggttt	ttgatggtag	ataggggttt	gtcacttgaa	1020
tgcaaaaatta	gctttataac	tataactttg	aaactaaatg	gctaaattat	tactgatttt	1080
atttttattt	ttatgggtcg	ccttacaaga	tgtatttagt	ttgcctcttg	gttttgagta	1140
ctgtggaaat	gagcttactg	gttgctgttt	ctgaaaatgt	gtactttaac	ttattctcaa	1200

ggtaattatt	gatgtgtttt	taaactgaaa	aacactgaag	aaattttata	gataagtttt	1260
ctccatattt	tgttttcacat	aaattgtgtc	cattttgaag	atgtagttcc	tcttttcctc	1320
ttccaaatga	ttaaactggg	aaaatttttg	tattagagga	attaagggtga	gaggtgctga	1380
gcaaaatatg	aatcttccaa	ggtttattct	tgtaccttgt	tagggatatg	cgtgggtgtt	1440
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agagaaaatg	taactgtgtg	aagatttaaat	aaagtggatt	ggtggaaaga	ccattttatt	1620
atttggaatg	ttattatttg	gaatgttaac	agaaaaactt	cagctgaatt	aaatttaaag	1680
gagtttaatt	gagcagtgaa	caattcgcga	gtcgggcagc	cccaagaatc	acgggagatt	1740
cagagactgc	agtgcagcta	tgtggtggaa	gaagatttat	agacaaaaaa	aaaaaaaaa	1799

<210> 70  
 <211> 1984  
 <212> DNA  
 <213> Homo sapiens

<400> 70						
cttttttttt	tgttgccagga	ggaacagatg	tgggaggaga	gccaacacaga	gagcctccgc	60
tatcaacatc	gtcttcaaag	aggagtgcac	ctctctgggt	cttcttttgg	ctgtccttgg	120
caatggcaaa	aagatcatct	tctttgtctt	cctcaaagag	actggtcttt	ttcacagcct	180
tggcctcctg	gctctggagg	gtcccagaat	ccctgggttc	tcctttagac	ctgctgtcag	240
atgctaagtg	ggtctgtgaa	gcaggaatat	tccactgggtc	ctcctcatca	ctgctgaaca	300
acagggcaga	tgctttcttt	ttggagagct	cggaggcttt	tgctttctct	tctctctgag	360
cttgttagaga	caatgtctgc	ttcttagcag	ctgtaccccc	aaaaagatta	tcctcttcat	420
cttcatcatc	aaacagggaa	accgacgtgg	ggagcttgcc	aggcagcaga	gatgcacctt	480
ttaagttact	cgcactttga	gaagaaaaca	aatccttttt	ttctgctctt	gctttatttt	540
catctgtctg	actcacagtg	gcttctggcg	atgctacggc	tttttctttg	aacagatctc	600
cttcttcgtc	accaaagata	tcggcagttg	attggacttt	gcgtgtttta	gaaggtttgc	660
tgtgggggtg	cgagaaaaag	tcgtcatcat	catcaccatc	atcatcatca	aagaggccag	720
tgggaggggg	accatagggg	cttttctctg	gagtgggctg	ctcaggcttc	tgtggctcct	780
tcagtgatgg	aacggaggga	gcaccaaaaca	catccgtgtc	tcctaaaaat	acagaaacag	840
ctcctgctgg	gattttcttt	ccagggtttg	atgatgaaga	ctcctcctta	acagaggctc	900
cagcttgccg	atcctggggg	gcttccatga	agaggtcact	ctcctcgtcc	tcatcatcaa	960
atagtccctt	gccgccactg	aacaggccac	ctccagagcc	aaatggcgag	aagtccctgt	1020
cggtcagctt	ggggggtgcg	aataagttat	cctcttcac	gtctgaagga	gttctccttt	1080
ccttcttctc	tttgagtgtc	ttccgaggtt	ttgcttctcc	tgagggtaag	gttgctcggt	1140
cctcgctccac	tcgacccatg	gcacccccct	tgatgcgggc	agccagctca	tctgcaaacg	1200
atgtagggtc	gcttctttta	gggtctagtat	tttcttcaat	gtcctcaata	tcttctcct	1260
ccttctcaga	gtcagcaaaa	aggtcacagc	catcatcatc	ctcttctctca	tcactcattt	1320
gtgtgggtgtg	ctggttttgt	tcattgtcac	tgtgatgggc	aaaatcttca	tctgactcct	1380
cctcttcttt	ctcttctctca	gtgtccacaa	tactgccacg	atcactgcct	acagagcctt	1440
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gcccattagc	atcatcttcc	tcggagtctg	agtttctctg	tttgatatca	agttgctcaa	1620
aggcactgtc	caataacttgt	aagccatagt	tcacagcctc	ctggacttta	ggaatgagat	1680
ctacttcttt	ctgctctcgt	gtcttctcct	gctctgtttt	ttctgcctca	gccttgagta	1740
ctggctcctc	cacttcttca	tcatatcac	gattctctat	gaactgggta	ttagagagca	1800
taaggaagtc	attgaagaca	ttatgcaggc	gacaatctgt	ggctttgggt	tcccggatta	1860
gtccgtccac	ttgtttcttg	atttcatggg	tcctagagat	agtttgctgt	gagaattcct	1920
gtagaaactg	tagtaggcc	gcgtcggcgc	ccagcggaat	tcgatatcaa	gcttatcgat	1980
accg						1984

<210> 71  
 <211> 2084  
 <212> DNA  
 <213> Homo sapiens

<400> 71						
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 3227  
 <212> DNA  
 <213> Homo sapiens

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<210> 75  
 <211> 1654  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1763  
 <212> DNA  
 <213> Homo sapiens

<400> 76						
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 <212> DNA  
 <213> Homo sapiens

<220>  
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&lt;213&gt; Homo sapiens

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&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 78

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 <213> Homo sapiens

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 <213> Homo sapiens  
  
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 <221> SITE  
 <222> (831)  
 <223> n equals a,t,g, or c

<400> 82						
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 <211> 634  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 84



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 <212> DNA  
 <213> Homo sapiens

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<210> 86  
 <211> 2921  
 <212> DNA  
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<222> (4)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

<400> 87

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<210> 88

<211> 931

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (717)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (718)

<223> n equals a,t,g, or c

<400> 88

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<210> 89

<211> 1420

<212> DNA

<213> Homo sapiens

<400> 89

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<210> 90  
 <211> 1183  
 <212> DNA  
 <213> Homo sapiens

<400> 90						
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<210> 91  
 <211> 1881  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

<222> (8)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (48)  
 <223> n equals a,t,g, or c

<400> 91

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<210> 92  
 <211> 1433  
 <212> DNA  
 <213> Homo sapiens

<400> 92

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<210> 93  
 <211> 2454  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2317)  
 <223> n equals a,t,g, or c

<400> 93						
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<210> 94  
 <211> 1775  
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (820)

<223> n equals a,t,g, or c

<400> 94

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<210> 95

<211> 1379

<212> DNA

<213> Homo sapiens

<400> 95

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agaatttgtc	caaatacaaa	gacagtgaga	ccgcctgggt	agaggtgctg	gaggggtgtg	360
gcagcaagtc	agacttcgag	tgccaccgcc	tgctggagct	gagttaggag	ctggtggaga	420
gctgggtggtt	tcacaagcag	caggaggccc	cggacctctt	ccagtggctg	tgctcagatt	480
ccctgaagct	ctgctgcccc	gcaggcacct	tcgggcccct	ctgccttccc	tgtcctgggg	540
gaacagagag	gccctgcggg	ggctacgggc	agtgtgaagg	agaaggggaca	cgagggggga	600
gcgggcactg	tgactgccaa	gccggctacg	ggggtagagg	ctgtggccag	tgtggccttg	660
gctactttga	ggcagaacgc	aacgccagcc	atctgggatg	ttcggcttgt	tttggcccc	720
gtgcccgatg	ctcaggacct	gaggaatcaa	actgtttgca	atgcaagaag	ggctggggcc	780
tgcatcacct	caagtgtgta	gacattgatg	agtgtggcac	agagggagcc	aactgtggag	840
ctgaccaatt	ctgcgtgaac	actgagggtc	cctatgagtg	ccgagactgt	gccaaggcct	900
gcctaggctg	catgggggca	gggccaggtc	gtgtaagaa	gtgtagccct	ggctatcagc	960
aggtgggctc	caagtgtctc	gatgtggatg	agtgtgagac	agaggtgtgt	ccgggagaga	1020
acaagcagtg	tgaaaacacc	gagggcggtt	atcgctgcat	ctgtgccgag	ggctacaagc	1080
agatggaagg	catctgtgtg	aaggagcaga	tcccagggtg	attccccatc	ttactgatt	1140
taaccctga	aacaaccgca	cgtggaagt	tgggttctca	tccccactct	acatatgtaa	1200

aatgaagat	gcagagagat	gaagctactt	tcccagggt	atatggcaag	caagtcgcaa	1260
agctgggatc	ccaatccaga	cagtctgacc	gtggaacgag	actcatcac	gtaataaatg	1320
ctctgcccc	aacttgtcca	ccacaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggcggccgc	1379

<210> 96  
 <211> 700  
 <212> DNA  
 <213> Homo sapiens

<400> 96						
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cacagaatgc	gtattctcgt	cactgtcctt	tctatgtcag	cattcagagt	tactggctgt	120
catttttcat	ggtgatgatt	ttattttag	ctttcataac	ctgttgggaa	gaagttacta	180
ctttggtaca	ggctatcagg	ataacttcct	atatgaatga	aactatctta	tattttcctt	240
tttcatccca	ctccagttat	actgtgagat	ctaaaaaat	attcttatcc	aagctcattg	300
tctgttttct	cagtacctgg	ttaccatttg	tactacttca	ggtaatcatt	gttttactta	360
aagttcagat	tccagcatat	attgagatga	atattccctg	gttatacttt	gtcaatagtt	420
ttctcattgc	tacagtgtat	tggtttaatt	gtcacaagct	taatttaaaa	gacattggat	480
tacctttgga	tccatttgtc	aactggaagt	gctgcttcat	tccacttaca	attcctaattc	540
ttgagcaaat	tgaaaagcct	atatcaataa	tgatttggtta	atattattaa	ttaaaagtta	600
cagctgtcat	aagatcataa	ttttatgaac	agaaagaact	caggacatat	taaaaataa	660
actgaactaa	aacaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			700

<210> 97  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 97	
Met Arg Leu Arg Leu Arg Leu Leu Ala Leu Leu Leu Leu Leu Ala	
1 5 10 15	
Pro Pro Ala Arg Ala Pro Lys Pro Ser Ala Gln Asp Val Ser Leu Gly	
20 25 30	
Val Asp Trp Leu Thr Arg Tyr Gly Tyr Leu Pro Pro Pro His Pro Ala	
35 40 45	
Gln Ala Gln Leu Gln Ser Pro Glu Lys Leu Arg Asp Ala Ile Lys Val	
50 55 60	
Met Gln Arg Phe Ala Gly Leu Pro Glu Thr Gly Arg Met Asp Pro Gly	
65 70 75 80	
Thr Val Ala Thr Met Arg Lys Pro Arg Cys Ser Leu Pro Asp Val Leu	
85 90 95	
Gly Val Ala Gly Leu Val Arg Arg Arg Arg Arg Tyr Ala Leu Ser Gly	
100 105 110	
Ser Val Trp Lys Lys Arg Thr Leu Thr Trp Arg Val Arg Ser Phe Pro	
115 120 125	
Gln Ser Ser Gln Leu Ser Gln Glu Thr Val Arg Val Leu Met Ser Tyr	
130 135 140	
Ala Leu Met Ala Trp Gly Met Glu Ser Gly Leu Thr Phe His Glu Val	
145 150 155 160	
Asp Ser Pro Gln Gly Gln Glu Pro Asp Ile Leu Ile Asp Phe Ala Arg	
165 170 175	
Ala Phe His Gln Asp Ser Tyr Pro Phe Asp Gly Leu Gly Gly Thr Leu	
180 185 190	



Ala His Ala Phe Phe Pro Gly Glu His Pro Ile Ser Gly Asp Thr His  
 195 200 205

Phe Asp Asp Glu Glu Thr Trp Thr Phe Gly Ser Lys Asp Gly Glu Gly  
 210 215 220

Thr Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Leu Gly  
 225 230 235 240

Leu Gly His Ser Ser Ala Pro Asn Ser Ile Met Arg Pro Phe Tyr Gln  
 245 250 255

Gly Pro Val Gly Asp Pro Asp Lys Tyr Arg Leu Ser Gln Asp Asp Arg  
 260 265 270

Asp Gly Leu Gln Gln Leu Tyr Gly Lys Ala Pro Gln Thr Pro Tyr Asp  
 275 280 285

Lys Pro Thr Arg Lys Pro Leu Ala Pro Pro Pro Gln Pro Pro Ala Ser  
 290 295 300

Pro Thr His Ser Pro Ser Phe Pro Ile Pro Asp Arg Cys Glu Gly Asn  
 305 310 315 320

Phe Asp Ala Ile Ala Asn Ile Arg Gly Glu Thr Phe Phe Phe Lys Gly  
 325 330 335

Pro Trp Phe Trp Arg Leu Gln Pro Ser Gly Gln Leu Val Ser Pro Arg  
 340 345 350

Pro Ala Arg Leu His Arg Phe Trp Glu Gly Leu Pro Ala Gln Val Arg  
 355 360 365

Val Val Gln Ala Ala Tyr Ala Arg His Arg Asp Gly Arg Ile Leu Leu  
 370 375 380

Phe Ser Gly Pro Gln Phe Trp Val Phe Gln Asp Arg Gln Leu Glu Gly  
 385 390 395 400

Gly

<210> 98  
 <211> 205  
 <212> PRT  
 <213> Homo sapiens

<400> 98  
 Met Gly Thr Ala Gly Ala Met Gln Leu Cys Trp Val Ile Leu Gly Phe  
 1 5 10 15

Leu Leu Phe Arg Gly His Asn Ser Gln Pro Thr Met Thr Gln Thr Ser  
 20 25 30

Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr Glu Pro Val  
 35 40 45

Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala Asn Arg Pro Ser  
 50 55 60

His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly Val Pro Ser Ser Gly  
 65 70 75 80

Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe Gln Thr Val Pro Pro Asn

				85					90					95				
Ser	Thr	Thr	Met	Ser	Leu	Ser	Met	Arg	Glu	Asp	Ala	Thr	Ile	Leu	Pro			
			100					105					110					
Ser	Pro	Thr	Ser	Glu	Thr	Val	Leu	Thr	Val	Ala	Ala	Phe	Gly	Val	Ile			
		115					120					125						
Ser	Phe	Ile	Val	Ile	Leu	Val	Val	Val	Val	Ile	Ile	Leu	Val	Gly	Val			
	130					135					140							
Val	Ser	Leu	Arg	Phe	Lys	Cys	Arg	Lys	Ser	Lys	Glu	Ser	Glu	Asp	Pro			
145					150					155					160			
Gln	Lys	Pro	Gly	Ser	Ser	Gly	Leu	Ser	Glu	Ser	Cys	Ser	Thr	Ala	Asn			
				165					170					175				
Gly	Glu	Lys	Asp	Ser	Ile	Thr	Leu	Ile	Ser	Met	Lys	Asn	Ile	Asn	Met			
			180					185					190					
Asn	Asn	Gly	Lys	Gln	Ser	Leu	Ser	Ala	Glu	Lys	Val	Leu						
		195					200					205						

&lt;210&gt; 99

&lt;211&gt; 672

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

Met	Cys	Ser	Arg	Val	Pro	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Ala		
1				5					10						15		
Leu	Gly	Pro	Gly	Val	Gln	Gly	Cys	Pro	Ser	Gly	Cys	Gln	Cys	Ser	Gln		
			20					25					30				
Pro	Gln	Thr	Val	Phe	Cys	Thr	Ala	Arg	Gln	Gly	Thr	Thr	Val	Pro	Arg		
		35					40					45					
Asp	Val	Pro	Pro	Asp	Thr	Val	Gly	Leu	Tyr	Val	Phe	Glu	Asn	Gly	Ile		
	50					55					60						
Thr	Met	Leu	Asp	Ala	Gly	Ser	Phe	Ala	Gly	Leu	Pro	Gly	Leu	Gln	Leu		
65					70				75						80		
Leu	Asp	Leu	Ser	Gln	Asn	Gln	Ile	Ala	Ser	Leu	Pro	Ser	Gly	Val	Phe		
				85					90					95			
Gln	Pro	Leu	Ala	Asn	Leu	Ser	Asn	Leu	Asp	Leu	Thr	Ala	Asn	Arg	Leu		
			100					105					110				
His	Glu	Ile	Thr	Asn	Glu	Thr	Phe	Arg	Gly	Leu	Arg	Arg	Leu	Glu	Arg		
		115					120					125					
Leu	Tyr	Leu	Gly	Lys	Asn	Arg	Ile	Arg	His	Ile	Gln	Pro	Gly	Ala	Phe		
	130					135					140						
Asp	Thr	Leu	Asp	Arg	Leu	Leu	Glu	Leu	Lys	Leu	Gln	Asp	Asn	Glu	Leu		
145					150					155					160		
Arg	Ala	Leu	Pro	Pro	Leu	Arg	Leu	Pro	Arg	Leu	Leu	Leu	Leu	Asp	Leu		
				165					170					175			
Ser	His	Asn	Ser	Leu	Leu	Ala	Leu	Glu	Pro	Gly	Ile	Leu	Asp	Thr	Ala		
			180					185					190				

Asn	Val	Glu	Ala	Leu	Arg	Leu	Ala	Gly	Leu	Gly	Leu	Gln	Gln	Leu	Asp	195	200	205
Glu	Gly	Leu	Phe	Ser	Arg	Leu	Arg	Asn	Leu	His	Asp	Leu	Asp	Val	Ser	210	215	220
Asp	Asn	Gln	Leu	Glu	Arg	Val	Pro	Pro	Val	Ile	Arg	Gly	Leu	Arg	Gly	225	230	235
Leu	Thr	Arg	Leu	Arg	Leu	Ala	Gly	Asn	Thr	Arg	Ile	Ala	Gln	Leu	Arg	245	250	255
Pro	Glu	Asp	Leu	Ala	Gly	Leu	Ala	Ala	Leu	Gln	Glu	Leu	Asp	Val	Ser	260	265	270
Asn	Leu	Ser	Leu	Gln	Ala	Leu	Pro	Gly	Asp	Leu	Ser	Gly	Leu	Phe	Pro	275	280	285
Arg	Leu	Arg	Leu	Leu	Ala	Ala	Ala	Arg	Asn	Pro	Phe	Asn	Cys	Val	Cys	290	295	300
Pro	Leu	Ser	Trp	Phe	Gly	Pro	Trp	Val	Arg	Glu	Ser	His	Val	Thr	Leu	305	310	315
Ala	Ser	Pro	Glu	Glu	Thr	Arg	Cys	His	Phe	Pro	Pro	Lys	Asn	Ala	Gly	325	330	335
Arg	Leu	Leu	Leu	Glu	Leu	Asp	Tyr	Ala	Asp	Phe	Gly	Cys	Pro	Ala	Thr	340	345	350
Thr	Thr	Thr	Ala	Thr	Val	Pro	Thr	Thr	Arg	Pro	Val	Val	Arg	Glu	Pro	355	360	365
Thr	Ala	Leu	Ser	Ser	Ser	Leu	Ala	Pro	Thr	Trp	Leu	Ser	Pro	Thr	Ala	370	375	380
Pro	Ala	Thr	Glu	Ala	Pro	Ser	Pro	Pro	Ser	Thr	Ala	Pro	Pro	Thr	Val	385	390	395
Gly	Pro	Val	Pro	Gln	Pro	Gln	Asp	Cys	Pro	Pro	Ser	Thr	Cys	Leu	Asn	405	410	415
Gly	Gly	Thr	Cys	His	Leu	Gly	Thr	Arg	His	His	Leu	Ala	Cys	Leu	Cys	420	425	430
Pro	Glu	Gly	Phe	Thr	Gly	Leu	Tyr	Cys	Glu	Ser	Gln	Met	Gly	Gln	Gly	435	440	445
Thr	Arg	Pro	Ser	Pro	Thr	Pro	Val	Thr	Pro	Arg	Pro	Pro	Arg	Ser	Leu	450	455	460
Thr	Leu	Gly	Ile	Glu	Pro	Val	Ser	Pro	Thr	Ser	Leu	Arg	Val	Gly	Leu	465	470	475
Gln	Arg	Tyr	Leu	Gln	Gly	Ser	Ser	Val	Gln	Leu	Arg	Ser	Leu	Arg	Leu	485	490	495
Thr	Tyr	Arg	Asn	Leu	Ser	Gly	Pro	Asp	Lys	Arg	Leu	Val	Thr	Leu	Arg	500	505	510
Leu	Pro	Ala	Ser	Leu	Ala	Glu	Tyr	Thr	Val	Thr	Gln	Leu	Arg	Pro	Asn	515	520	525
Ala	Thr	Tyr	Ser	Val	Cys	Val	Met	Pro	Leu	Gly	Pro	Gly	Arg	Val	Pro	530	535	540

Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro Ala Val His  
 545 550 555  
 Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn Leu Pro Leu  
 565 570 575  
 Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala Leu Ala Ala  
 580 585 590  
 Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met Ala Ala Ala  
 595 600 605  
 Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro Leu Glu Leu  
 610 615 620  
 Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala Thr Glu Ala  
 625 630 635 640  
 Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys His Ser Trp  
 645 650 655  
 Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys Pro Tyr Ile  
 660 665 670

<210> 100  
 <211> 386  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Met Lys Phe Gln Gly Pro Leu Ala Cys Leu Leu Leu Ala Leu Cys Leu  
 1 5 10 15  
 Gly Ser Gly Glu Ala Gly Pro Leu Gln Ser Gly Glu Glu Ser Thr Gly  
 20 25 30  
 Thr Asn Ile Gly Glu Ala Leu Gly His Gly Leu Gly Asp Ala Leu Ser  
 35 40 45  
 Glu Gly Val Gly Lys Ala Ile Gly Lys Glu Ala Gly Gly Ala Ala Gly  
 50 55 60  
 Ser Lys Val Ser Glu Ala Leu Gly Gln Gly Thr Arg Glu Ala Val Gly  
 65 70 75 80  
 Thr Gly Val Arg Gln Val Pro Gly Phe Gly Ala Ala Asp Ala Leu Gly  
 85 90 95  
 Asn Arg Val Gly Glu Ala Ala His Ala Leu Gly Asn Thr Gly His Glu  
 100 105 110  
 Ile Gly Arg Gln Ala Glu Asp Val Ile Arg His Gly Ala Asp Ala Val  
 115 120 125  
 Arg Gly Ser Trp Gln Gly Val Pro Gly His Asn Gly Ala Trp Glu Thr  
 130 135 140  
 Ser Gly Gly His Gly Ile Phe Gly Ser Gln Gly Gly Leu Gly Gly Gln  
 145 150 155 160  
 Gly Gln Gly Asn Pro Gly Gly Leu Gly Thr Pro Trp Val His Gly Tyr  
 165 170 175

Pro Gly Asn Ser Ala Gly Ser Phe Gly Met Asn Pro Gln Gly Ala Pro  
 180 185 190  
 Trp Gly Gln Gly Gly Asn Gly Gly Pro Pro Asn Phe Gly Thr Asn Thr  
 195 200 205  
 Gln Gly Ala Val Ala Gln Pro Gly Tyr Gly Ser Val Arg Ala Ser Asn  
 210 215 220  
 Gln Asn Glu Gly Cys Thr Asn Pro Pro Pro Ser Gly Ser Gly Gly Gly  
 225 230 235 240  
 Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gln Ser Gly Ser Ser Gly  
 245 250 255  
 Ser Gly Ser Asn Gly Asp Asn Asn Asn Gly Ser Ser Ser Gly Gly Ser  
 260 265 270  
 Ser Ser Gly Ser Ser Ser Gly Gly Ser Ser Gly Gly Ser Ser Gly Gly  
 275 280 285  
 Ser Ser Gly Asn Ser Gly Gly Ser Arg Gly Asp Ser Gly Ser Glu Ser  
 290 295 300  
 Ser Trp Gly Ser Ser Thr Gly Ser Ser Ser Gly Asn His Gly Gly Ser  
 305 310 315 320  
 Gly Gly Gly Asn Gly His Lys Pro Gly Cys Glu Lys Pro Gly Asn Glu  
 325 330 335  
 Ala Arg Gly Ser Gly Glu Ser Gly Ile Gln Asn Ser Glu Thr Ser Pro  
 340 345 350  
 Gly Met Phe Asn Phe Asp Thr Phe Trp Lys Asn Phe Lys Ser Lys Leu  
 355 360 365  
 Gly Phe Ile Asn Trp Asp Ala Ile Asn Lys Asp Gln Arg Ser Ser Arg  
 370 375 380  
 Ile Pro  
 385

<210> 101  
 <211> 743  
 <212> PRT  
 <213> Homo sapiens

<400> 101  
 Met Asn Val Ser Trp Ile Ser Leu Arg Arg Arg Ser Phe Arg Ala Phe  
 1 5 10 15  
 Gly Arg Val Trp Thr Cys Ser Gly Leu Leu Gln Met Thr Ser Ile Lys  
 20 25 30  
 Gly Lys Leu Ser Leu Val Trp Gln Arg Leu Asp Gly His Phe Cys Arg  
 35 40 45  
 Thr Leu Glu Glu Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln Arg  
 50 55 60  
 Tyr Ser Val Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu  
 65 70 75 80  
 Phe Thr Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln

85										90					95						
Asp	Leu	His	Leu	Phe	Glu	Thr	Leu	Lys	Thr	Asp	Pro	Glu	Ala	Phe	His						
			100					105					110								
Gln	His	Met	Val	Lys	Tyr	Ile	Tyr	Pro	Thr	Ile	Gly	Gly	Phe	Asp	His						
		115					120					125									
Glu	Arg	Leu	Gln	Tyr	Tyr	Phe	Thr	Leu	Leu	Glu	Asn	Cys	Gly	Cys	Ala						
	130					135					140										
Asp	Leu	Gly	Asn	Cys	Ala	Ile	Lys	Pro	Glu	Thr	His	Ile	Arg	Leu	Leu						
145					150					155					160						
Lys	Lys	Phe	Lys	Val	Val	Ala	Ser	Gly	Leu	Asn	Tyr	Lys	Lys	Leu	Thr						
			165						170					175							
Asp	Glu	Asn	Met	Ser	Pro	Leu	Glu	Ala	Leu	Glu	Pro	Val	Leu	Ser	Ser						
			180					185					190								
Gln	Asn	Ile	Leu	Ser	Ile	Ser	Lys	Leu	Val	Pro	Lys	Ile	Pro	Glu	Lys						
		195					200					205									
Asp	Gly	Gln	Met	Leu	Ser	Pro	Ser	Ser	Leu	Tyr	Thr	Ile	Trp	Leu	Gln						
	210					215					220										
Lys	Leu	Phe	Trp	Thr	Gly	Asp	Pro	His	Leu	Ile	Lys	Gln	Val	Pro	Gly						
225					230					235					240						
Ser	Ser	Pro	Glu	Trp	Leu	His	Ala	Tyr	Asp	Val	Cys	Met	Lys	Tyr	Phe						
			245					250						255							
Asp	Arg	Leu	His	Pro	Gly	Asp	Leu	Ile	Thr	Val	Val	Asp	Ala	Val	Thr						
			260					265					270								
Phe	Ser	Pro	Lys	Ala	Val	Thr	Lys	Leu	Ser	Val	Glu	Ala	Arg	Lys	Glu						
		275					280					285									
Met	Thr	Arg	Lys	Ala	Ile	Lys	Thr	Val	Lys	His	Phe	Ile	Glu	Lys	Pro						
	290					295					300										
Arg	Lys	Arg	Asn	Ser	Glu	Asp	Glu	Ala	Gln	Glu	Ala	Lys	Asp	Ser	Lys						
305					310					315					320						
Val	Thr	Tyr	Ala	Asp	Thr	Leu	Asn	His	Leu	Glu	Lys	Ser	Leu	Ala	His						
			325						330					335							
Leu	Glu	Thr	Leu	Ser	His	Ser	Phe	Ile	Leu	Ser	Leu	Lys	Asn	Ser	Glu						
			340					345					350								
Gln	Glu	Thr	Leu	Gln	Lys	Tyr	Ser	His	Leu	Tyr	Asp	Leu	Ser	Arg	Ser						
		355					360					365									
Glu	Lys	Glu	Lys	Leu	His	Asp	Glu	Ala	Val	Ala	Ile	Cys	Leu	Asp	Gly						
	370					375					380										
Gln	Pro	Leu	Ala	Met	Ile	Gln	Gln	Leu	Leu	Glu	Val	Ala	Val	Gly	Pro						
385					390					395					400						
Leu	Asp	Ile	Ser	Pro	Lys	Asp	Ile	Val	Gln	Ser	Ala	Ile	Met	Lys	Ile						
			405					410					415								
Ile	Ser	Ala	Leu	Ser	Gly	Gly	Ser	Ala	Asp	Leu	Gly	Gly	Pro	Arg	Asp						
		420					425						430								
Pro	Leu	Lys	Val	Leu	Glu	Gly	Val	Val	Ala	Ala	Val	His	Ala	Ser	Val						

435					440					445					
Asp	Lys	Gly	Glu	Glu	Leu	Val	Ser	Pro	Glu	Asp	Leu	Leu	Glu	Trp	Leu
	450					455					460				
Arg	Pro	Phe	Cys	Ala	Asp	Asp	Ala	Trp	Pro	Val	Arg	Pro	Arg	Ile	His
465					470					475					480
Val	Leu	Gln	Ile	Leu	Gly	Gln	Ser	Phe	His	Leu	Thr	Glu	Glu	Asp	Ser
				485					490					495	
Lys	Leu	Leu	Val	Phe	Phe	Arg	Thr	Glu	Ala	Ile	Leu	Lys	Ala	Ser	Trp
			500					505					510		
Pro	Gln	Arg	Gln	Val	Asp	Ile	Ala	Asp	Ile	Glu	Asn	Glu	Glu	Asn	Arg
		515					520					525			
Tyr	Cys	Leu	Phe	Met	Glu	Leu	Leu	Glu	Ser	Ser	His	His	Glu	Ala	Glu
	530					535					540				
Phe	Gln	His	Leu	Val	Leu	Leu	Leu	Gln	Ala	Trp	Pro	Pro	Met	Lys	Ser
545					550					555					560
Glu	Tyr	Val	Ile	Thr	Asn	Asn	Pro	Trp	Val	Arg	Leu	Ala	Thr	Val	Met
				565					570					575	
Leu	Thr	Arg	Cys	Thr	Met	Glu	Asn	Lys	Glu	Gly	Leu	Gly	Asn	Glu	Val
			580					585					590		
Leu	Lys	Met	Cys	Arg	Ser	Leu	Tyr	Asn	Thr	Lys	Gln	Met	Leu	Pro	Ala
		595					600					605			
Glu	Gly	Val	Lys	Glu	Leu	Cys	Leu	Leu	Leu	Leu	Asn	Gln	Ser	Leu	Leu
	610					615					620				
Leu	Pro	Ser	Leu	Lys	Leu	Leu	Leu	Glu	Ser	Arg	Asp	Glu	His	Leu	His
625					630					635					640
Glu	Met	Ala	Leu	Glu	Gln	Ile	Thr	Ala	Val	Thr	Thr	Val	Asn	Asp	Ser
				645					650					655	
Asn	Cys	Asp	Gln	Glu	Leu	Leu	Ser	Leu	Leu	Leu	Asp	Ala	Lys	Leu	Leu
			660					665					670		
Val	Lys	Cys	Val	Ser	Thr	Pro	Phe	Tyr	Pro	Arg	Ile	Val	Asp	His	Leu
		675					680					685			
Leu	Ala	Ser	Leu	Gln	Gln	Gly	Arg	Trp	Asp	Ala	Glu	Glu	Leu	Gly	Arg
	690					695					700				
His	Leu	Arg	Glu	Ala	Gly	His	Glu	Ala	Glu	Ala	Gly	Ser	Leu	Leu	Leu
705					710					715					720
Ala	Val	Arg	Gly	Thr	His	Gln	Ala	Phe	Arg	Thr	Phe	Ser	Thr	Ala	Leu
				725					730					735	
Arg	Ala	Ala	Gln	His	Trp	Val									
			740												

&lt;210&gt; 102

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 102

Met Leu Asn Leu Gly Ser Trp Pro Gly Leu Val Ala Ala Ser Leu Phe  
 1 5 10 15  
 Leu Leu Lys Gly Val Phe Ser Leu Phe Val Gln Leu Leu Lys Asn Pro  
 20 25 30  
 Leu Gln His Pro Arg Asn Arg Ala Thr His Leu Leu Ala Thr Pro Gly  
 35 40 45  
 Ala Arg Val Leu Gln Glu His Leu Ser Ile His Pro Val Cys His Gln  
 50 55 60  
 Ser Gln Pro Pro Glu Ala Leu Ser Ser Thr Gln His Thr Gly Gln Pro  
 65 70 75 80  
 Pro Gly Gln Pro Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr  
 85 90 95  
 Ser Ser Ser Leu Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln  
 100 105 110  
 Pro Pro Thr Gln Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln  
 115 120 125  
 Gly Pro Pro Asn Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln  
 130 135 140  
 Pro Ser His Thr Pro Pro Gln Thr Pro Thr Pro Ser Thr Pro Pro  
 145 150 155 160  
 Leu Gly Lys Gln Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly  
 165 170 175  
 Gly Asn Pro Glu Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro  
 180 185 190  
 Arg Pro Val Pro Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Pro  
 195 200 205  
 Gln Pro Pro Gly Val His Ser Ala Gly Asp Ser Ser Leu Thr Asn Thr  
 210 215 220  
 Ala Pro Thr Ala Ser Lys Ile Val Thr Asp Val  
 225 230 235

<210> 103  
 <211> 402  
 <212> PRT  
 <213> Homo sapiens

<400> 103  
 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly  
 1 5 10 15  
 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro  
 20 25 30  
 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu  
 35 40 45  
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val  
 50 55 60  
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu  
 65 70 75 80



Val	Asn	Ile	Ser	Leu	Ser	Asp	Leu	Leu	Val	Ser	Leu	Phe	Gly	Val	Thr	
				85					90					95		
Phe	Thr	Phe	Val	Ser	Cys	Leu	Arg	Asn	Gly	Trp	Val	Trp	Asp	Thr	Val	
			100					105					110			
Gly	Cys	Val	Trp	Asp	Gly	Phe	Ser	Gly	Ser	Leu	Phe	Gly	Ile	Val	Ser	
		115					120					125				
Ile	Ala	Thr	Leu	Thr	Val	Leu	Ala	Tyr	Glu	Arg	Tyr	Ile	Arg	Val	Val	
	130					135					140					
His	Ala	Arg	Val	Ile	Asn	Phe	Ser	Trp	Ala	Trp	Arg	Ala	Ile	Thr	Tyr	
145					150					155					160	
Ile	Trp	Leu	Tyr	Ser	Leu	Ala	Trp	Ala	Gly	Ala	Pro	Leu	Leu	Gly	Trp	
				165					170					175		
Asn	Arg	Tyr	Ile	Leu	Asp	Val	His	Gly	Leu	Gly	Cys	Thr	Val	Asp	Trp	
			180					185					190			
Lys	Ser	Lys	Asp	Ala	Asn	Asp	Ser	Ser	Phe	Val	Leu	Phe	Leu	Phe	Leu	
		195					200					205				
Gly	Cys	Leu	Val	Val	Pro	Leu	Gly	Val	Ile	Ala	His	Cys	Tyr	Gly	His	
	210					215					220					
Ile	Leu	Tyr	Ser	Ile	Arg	Met	Leu	Arg	Cys	Val	Glu	Asp	Leu	Gln	Thr	
225					230					235					240	
Ile	Gln	Val	Ile	Lys	Ile	Leu	Lys	Tyr	Glu	Lys	Lys	Leu	Ala	Lys	Met	
				245					250					255		
Cys	Phe	Leu	Met	Ile	Phe	Thr	Phe	Leu	Val	Cys	Trp	Met	Pro	Tyr	Ile	
			260					265					270			
Val	Ile	Cys	Phe	Leu	Val	Val	Asn	Gly	His	Gly	His	Leu	Val	Thr	Pro	
		275					280					285				
Thr	Ile	Ser	Ile	Val	Ser	Tyr	Leu	Phe	Ala	Lys	Ser	Asn	Thr	Val	Tyr	
	290					295					300					
Asn	Pro	Val	Ile	Tyr	Val	Phe	Met	Ile	Arg	Lys	Phe	Arg	Arg	Ser	Leu	
305					310					315					320	
Leu	Gln	Leu	Leu	Cys	Leu	Arg	Leu	Leu	Arg	Cys	Gln	Arg	Pro	Ala	Lys	
				325					330					335		
Asp	Leu	Pro	Ala	Ala	Gly	Ser	Glu	Met	Gln	Ile	Arg	Pro	Ile	Val	Met	
			340					345					350			
Ser	Gln	Lys	Asp	Gly	Asp	Arg	Pro	Lys	Lys	Lys	Val	Thr	Phe	Asn	Ser	
		355					360					365				
Ser	Ser	Ile	Ile	Phe	Ile	Ile	Thr	Ser	Asp	Glu	Ser	Leu	Ser	Val	Asp	
	370					375					380					
Asp	Ser	Asp	Lys	Thr	Asn	Gly	Ser	Lys	Val	Asp	Val	Ile	Gln	Val	Arg	
385					390					395					400	
Pro	Leu															

<211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 104  
 Met Lys Gln Arg Leu Arg Gly Gln Gln Gly Phe Gln Leu Asp Val Cys  
   1                  5                  10                  15  
 Val Ala Cys Thr Leu Leu Phe Leu Leu Thr Val Asn Ser Gly Val  
                   20                  25                  30  
 Thr Ser Arg Glu Gln Leu Gly Cys Ser Arg Pro Ser Pro Ala Gln Gly  
                   35                  40                  45  
 Glu Gly Arg Gly Thr Cys Ser Ser Glu Gln Pro Glu Gly Gly Gly Arg  
   50                  55                  60  
 Ser Glu Val Val Glu Trp Phe Val Tyr Leu Thr Gly Leu Lys Gly Pro  
   65                  70                  75                  80  
 Ser Val Phe Val Val Cys Phe Val Ser Cys Phe Ser Asp Arg Ser Ile  
                   85                  90                  95  
 Thr Thr Asp Leu Leu  
                   100

<210> 105  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<400> 105  
 Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala  
   1                  5                  10                  15  
 Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn  
                   20                  25                  30  
 Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val  
                   35                  40                  45  
 Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp  
   50                  55                  60  
 Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr  
   65                  70                  75                  80  
 Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser  
                   85                  90                  95  
 Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly  
                   100                  105                  110  
 Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val  
                   115                  120                  125  
 Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly  
   130                  135                  140  
 Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe  
   145                  150                  155                  160  
 Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile  
                   165                  170                  175

Ser Phe Cys Gly Asp Thr Val Glu Asn  
180 185

<210> 106  
<211> 231  
<212> PRT  
<213> Homo sapiens

<400> 106  
Met Ser Arg Ala Met Ala Leu Phe Phe Val Leu Cys Trp Ile Gln Gly  
1 5 10 15  
Tyr Ser Gln Gln Lys Ser Leu Asn Asn Ala Ala Phe Ala Ser Gly Ser  
20 25 30  
Asn Glu Arg Glu Glu His Leu Ala Lys Ile Phe Asp Glu Ile Leu Leu  
35 40 45  
Gln Val Phe Pro Lys Phe Pro Tyr Asp Pro Ser Phe Asn Glu Ala Thr  
50 55 60  
Ala Val Arg Ser Ile Thr Lys Thr Asp Met Arg Lys Gly Thr Ser Ile  
65 70 75 80  
Ala Trp Asn Ser Pro Lys Pro Glu Tyr Phe Leu Gly Ser Val Asp Lys  
85 90 95  
Ile Pro Asp Lys Asp His Leu Ser Glu Glu Lys Asn Phe Lys Glu Ser  
100 105 110  
Cys Leu Phe Asp Arg Asp Leu Arg Glu Gln Leu Thr Thr Ile Asp Lys  
115 120 125  
Glu Thr Leu Gln Gly Ala Ala Lys Pro Asp Ala His Phe Arg Thr Met  
130 135 140  
Pro Cys Gly Gln Leu Leu His Phe Leu Gln Arg Asn Thr Ile Ile Ala  
145 150 155 160  
Thr Val Ser Gly Val Ala Ile Leu Met Ala Ile Val Leu Leu Leu Leu  
165 170 175  
Gly Leu Ala Ser Tyr Ile Arg Lys Lys Gln Pro Ser Ser Pro Leu Ala  
180 185 190  
Asn Thr Thr Tyr Asn Ile Phe Ile Met Asp Gly Lys Thr Trp Trp His  
195 200 205  
Asn Ser Glu Glu Lys Asn Phe Thr Lys Leu Ala Lys Lys Gln Lys Gln  
210 215 220  
Leu Lys Ser Ser Ser Cys Val  
225 230

<210> 107  
<211> 136  
<212> PRT  
<213> Homo sapiens

<400> 107  
Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro  
1 5 10 15  
Pro Leu Trp Ser Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys

20					25					30					
Ala	Thr	Ile	Ala	Asp	Leu	Ile	Leu	Ser	Ala	Leu	Glu	Arg	Ala	Thr	Val
		35					40					45			
Phe	Leu	Glu	Gln	Arg	Leu	Pro	Glu	Ile	Asn	Leu	Asp	Gly	Met	Val	Gly
	50					55					60				
Val	Arg	Val	Leu	Glu	Glu	Gln	Leu	Lys	Ser	Val	Arg	Glu	Lys	Trp	Ala
65					70					75					80
Gln	Glu	Pro	Leu	Leu	Gln	Pro	Leu	Ser	Leu	Arg	Val	Gly	Met	Leu	Gly
				85					90					95	
Glu	Lys	Leu	Glu	Ala	Ala	Ile	Gln	Arg	Ser	Leu	His	Tyr	Leu	Lys	Leu
			100					105					110		
Ser	Asp	Pro	Lys	Tyr	Leu	Arg	Gly	Arg	Thr	Ala	Ala	Ser	Pro	Ala	Ala
		115					120					125			
Ser	Gln	Thr	Ser	Ala	Gly	Ala	Ser								
	130					135									

&lt;210&gt; 108

&lt;211&gt; 606

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 108

Met	Thr	Val	Val	Gly	Asn	Pro	Arg	Ser	Trp	Ser	Cys	Gln	Trp	Leu	Pro
1				5					10					15	
Ile	Leu	Ile	Leu	Leu	Leu	Gly	Thr	Gly	His	Gly	Pro	Gly	Val	Glu	Gly
			20					25					30		
Val	Thr	His	Tyr	Lys	Ala	Gly	Asp	Pro	Val	Ile	Leu	Tyr	Val	Asn	Lys
		35					40					45			
Val	Gly	Pro	Tyr	His	Asn	Pro	Gln	Glu	Thr	Tyr	His	Tyr	Tyr	Gln	Leu
	50					55					60				
Pro	Val	Cys	Cys	Pro	Glu	Lys	Ile	Arg	His	Lys	Ser	Leu	Ser	Leu	Gly
65					70					75					80
Glu	Val	Leu	Asp	Gly	Asp	Arg	Met	Ala	Glu	Ser	Leu	Tyr	Glu	Ile	Arg
				85					90					95	
Phe	Arg	Glu	Asn	Val	Glu	Lys	Arg	Ile	Leu	Cys	His	Met	Gln	Leu	Ser
			100					105					110		
Ser	Ala	Gln	Val	Glu	Gln	Leu	Arg	Gln	Ala	Ile	Glu	Glu	Leu	Tyr	Tyr
		115					120					125			
Phe	Glu	Phe	Val	Val	Asp	Asp	Leu	Pro	Ile	Arg	Gly	Phe	Val	Gly	Tyr
	130					135					140				
Met	Glu	Glu	Ser	Gly	Phe	Leu	Pro	His	Ser	His	Lys	Ile	Gly	Leu	Trp
145					150					155					160
Thr	His	Leu	Asp	Phe	His	Leu	Glu	Phe	His	Gly	Asp	Arg	Ile	Ile	Phe
				165					170					175	
Ala	Asn	Val	Ser	Val	Arg	Asp	Val	Lys	Pro	His	Ser	Leu	Asp	Gly	Leu
			180					185					190		

Arg	Pro	Asp	Glu	Phe	Leu	Gly	Leu	Thr	His	Thr	Tyr	Ser	Val	Arg	Trp
		195					200					205			
Ser	Glu	Thr	Ser	Val	Glu	Arg	Arg	Ser	Asp	Arg	Arg	Arg	Gly	Asp	Asp
	210					215					220				
Gly	Gly	Phe	Phe	Pro	Arg	Thr	Leu	Glu	Ile	His	Trp	Leu	Ser	Ile	Ile
225					230					235					240
Asn	Ser	Met	Val	Leu	Val	Phe	Leu	Leu	Val	Gly	Phe	Val	Ala	Val	Ile
				245					250					255	
Leu	Met	Arg	Val	Leu	Arg	Asn	Asp	Leu	Ala	Arg	Tyr	Asn	Leu	Asp	Glu
			260					265						270	
Glu	Thr	Thr	Ser	Ala	Gly	Ser	Gly	Asp	Asp	Phe	Asp	Gln	Gly	Asp	Asn
		275					280					285			
Gly	Trp	Lys	Ile	Ile	His	Thr	Asp	Val	Phe	Arg	Phe	Pro	Pro	Tyr	Arg
	290					295					300				
Gly	Leu	Leu	Cys	Ala	Val	Leu	Gly	Val	Gly	Ala	Gln	Phe	Leu	Ala	Leu
305					310					315					320
Gly	Thr	Gly	Ile	Ile	Val	Met	Ala	Leu	Leu	Gly	Met	Phe	Asn	Val	His
				325					330					335	
Arg	His	Gly	Ala	Ile	Asn	Ser	Ala	Ala	Ile	Leu	Leu	Tyr	Ala	Leu	Thr
			340					345					350		
Cys	Cys	Ile	Ser	Gly	Tyr	Val	Ser	Ser	His	Phe	Tyr	Arg	Gln	Ile	Gly
		355					360					365			
Gly	Glu	Arg	Trp	Val	Trp	Asn	Ile	Ile	Leu	Thr	Thr	Ser	Leu	Phe	Ser
	370					375					380				
Val	Pro	Phe	Phe	Leu	Thr	Trp	Ser	Val	Val	Asn	Ser	Val	His	Trp	Ala
385					390					395					400
Asn	Gly	Ser	Thr	Gln	Ala	Leu	Pro	Ala	Thr	Thr	Ile	Leu	Leu	Leu	Leu
				405					410					415	
Thr	Val	Trp	Leu	Leu	Val	Gly	Phe	Pro	Leu	Thr	Val	Ile	Gly	Gly	Ile
			420					425					430		
Phe	Gly	Lys	Asn	Asn	Ala	Ser	Pro	Phe	Asp	Ala	Pro	Cys	Arg	Thr	Lys
		435				440						445			
Asn	Ile	Ala	Arg	Glu	Ile	Pro	Pro	Gln	Pro	Trp	Tyr	Lys	Ser	Thr	Val
	450					455					460				
Ile	His	Met	Thr	Val	Gly	Gly	Phe	Leu	Pro	Phe	Ser	Ala	Ile	Ser	Val
465					470					475					480
Glu	Leu	Tyr	Tyr	Ile	Phe	Ala	Thr	Val	Trp	Gly	Arg	Glu	Gln	Tyr	Thr
				485					490					495	
Leu	Tyr	Gly	Ile	Leu	Phe	Phe	Val	Phe	Ala	Ile	Leu	Leu	Ser	Val	Gly
			500					505					510		
Ala	Cys	Ile	Ser	Ile	Ala	Leu	Thr	Tyr	Phe	Gln	Leu	Ser	Gly	Glu	Asp
		515					520					525			
Tyr	Arg	Trp	Trp	Trp	Arg	Ser	Val	Leu	Ser	Val	Gly	Ser	Thr	Gly	Leu
	530					535					540				

Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met  
 545 550 555 560  
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr  
 565 570 575  
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser  
 580 585 590  
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp  
 595 600 605

<210> 109  
 <211> 310  
 <212> PRT  
 <213> Homo sapiens

<400> 109  
 Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
 1 5 10 15  
 Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
 20 25 30  
 Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
 35 40 45  
 Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
 50 55 60  
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe  
 65 70 75 80  
 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly  
 85 90 95  
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu  
 100 105 110  
 Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu  
 115 120 125  
 Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys  
 130 135 140  
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys  
 145 150 155 160  
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
 165 170 175  
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn  
 180 185 190  
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala  
 195 200 205  
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
 210 215 220  
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu  
 225 230 235 240  
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu  
 245 250 255



245

&lt;210&gt; 111

&lt;211&gt; 559

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 111

Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser  
 1 5 10 15

Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met  
 20 25 30

Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp  
 35 40 45

Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr  
 50 55 60

Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr  
 65 70 75 80

Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro  
 85 90 95

Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln  
 100 105 110

Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr  
 115 120 125

Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Ser Pro Ser Gly  
 130 135 140

Leu Tyr Gln Leu Asp Leu Leu Ser Thr Glu Lys Asp Thr His Phe Lys  
 145 150 155 160

Val Tyr Ala Thr Thr Thr Pro Glu Ser Asp Gln Pro Tyr Pro Glu Leu  
 165 170 175

Pro Tyr Asp Pro Arg Val Asp Val Thr Ser Leu Gly Arg Thr Thr Val  
 180 185 190

Thr Leu Ala Trp Lys Pro Ser Pro Thr Ala Ser Leu Leu Lys Gln Pro  
 195 200 205

Ile Gln Tyr Cys Val Val Ile Asn Lys Glu His Asn Phe Lys Ser Leu  
 210 215 220

Cys Ala Val Glu Ala Lys Leu Ser Ala Asp Asp Ala Phe Met Met Ala  
 225 230 235 240

Pro Lys Pro Gly Leu Asp Phe Ser Pro Phe Asp Phe Ala His Phe Gly  
 245 250 255

Phe Pro Ser Asp Asn Ser Gly Lys Glu Arg Ser Phe Gln Ala Lys Pro  
 260 265 270

Ser Pro Lys Leu Gly Arg His Val Tyr Ser Arg Pro Lys Val Asp Ile  
 275 280 285

Gln Lys Ile Cys Ile Gly Asn Lys Asn Ile Phe Thr Val Ser Asp Leu  
 290 295 300



Lys Pro Asp Thr Gln Tyr Tyr Phe Asp Val Phe Val Val Asn Ile Asn  
 305 310 315 320  
 Ser Asn Met Ser Thr Ala Tyr Val Gly Thr Phe Ala Arg Thr Lys Glu  
 325 330 335  
 Glu Ala Lys Gln Lys Thr Val Glu Leu Lys Asp Gly Lys Ile Thr Asp  
 340 345 350  
 Val Phe Val Lys Arg Lys Gly Ala Lys Phe Leu Arg Phe Ala Pro Val  
 355 360 365  
 Ser Ser His Gln Lys Val Thr Phe Phe Ile His Ser Cys Leu Asp Ala  
 370 375 380  
 Val Gln Ile Gln Val Arg Arg Asp Gly Lys Leu Leu Leu Ser Gln Asn  
 385 390 395 400  
 Val Glu Gly Ile Gln Gln Phe Gln Leu Arg Gly Lys Pro Lys Ala Lys  
 405 410 415  
 Tyr Leu Val Arg Leu Lys Gly Asn Lys Lys Gly Ala Ser Met Leu Lys  
 420 425 430  
 Ile Leu Ala Thr Thr Arg Pro Thr Lys Gln Ser Phe Pro Ser Leu Pro  
 435 440 445  
 Glu Asp Thr Arg Ile Lys Ala Phe Asp Lys Leu Arg Thr Cys Ser Ser  
 450 455 460  
 Ala Thr Val Ala Trp Leu Gly Thr Gln Glu Arg Asn Lys Phe Cys Ile  
 465 470 475 480  
 Tyr Lys Lys Glu Val Asp Asp Asn Tyr Asn Glu Asp Gln Lys Lys Arg  
 485 490 495  
 Glu Gln Asn Gln Cys Leu Gly Pro Asp Ile Arg Lys Lys Ser Glu Lys  
 500 505 510  
 Val Leu Cys Lys Tyr Phe His Ser Gln Asn Leu Gln Lys Ala Val Thr  
 515 520 525  
 Thr Glu Thr Ile Lys Gly Leu Gln Pro Gly Lys Ser Leu Pro Ala Gly  
 530 535 540  
 Cys Leu Cys His Arg Thr Trp Gly Ala Leu Cys Lys Val Ser Glu  
 545 550 555

<210> 112

<211> 71

<212> PRT

<213> Homo sapiens

<400> 112

Met Ser Pro Ser His Ser Pro Val Ser Cys Phe Lys Leu Arg Val Leu  
 1 5 10 15  
 Val Phe Pro Leu Pro Leu Phe Leu Gly Thr Ala Leu Cys Ser Val Trp  
 20 25 30  
 Asp Pro Arg Ala Arg Pro Leu Gly Leu Val Ala Ala Ala Arg Pro Leu  
 35 40 45  
 Gly Pro Ser Thr Cys Pro Ser Pro Arg Phe Pro Ala Ser Ser Ala Gly  
 50 55 60

Thr Leu Lys Leu Arg Ala Arg  
65 70

<210> 113  
<211> 158  
<212> PRT  
<213> Homo sapiens

<400> 113  
Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly  
1 5 10 15  
Ala Glu Asn Leu His Val Lys Ile Ser Cys Ser Leu Asp Trp Leu Met  
20 25 30  
Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala  
35 40 45  
Asp Glu Leu His Leu Gly Met Gly Cys Pro Ala Asn Arg Ile His Thr  
50 55 60  
Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr  
65 70 75 80  
Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Glu Leu Tyr Phe  
85 90 95  
Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys  
100 105 110  
Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Thr Glu Asn  
115 120 125  
Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr  
130 135 140  
Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu  
145 150 155

<210> 114  
<211> 170  
<212> PRT  
<213> Homo sapiens

<400> 114  
Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
1 5 10 15  
Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
20 25 30  
Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
35 40 45  
Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
50 55 60  
Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
65 70 75 80  
Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
 100 105 110  
 Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
 115 120 125  
 Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
 130 135 140  
 Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
 145 150 155 160  
 Ala Val His Pro Thr Gly Thr Lys Ala Leu  
 165 170

<210> 115  
 <211> 354  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 115  
 Met Ala Gly Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu  
 1 5 10 15  
 Leu Gly Arg Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr  
 20 25 30  
 Ala Thr Ala Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala  
 35 40 45  
 Leu Leu Ser Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly  
 50 55 60  
 Ser Leu Met Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro  
 65 70 75 80  
 Leu Glu Met Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu  
 85 90 95  
 Lys Gln Leu Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe  
 100 105 110  
 Leu His Leu Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro  
 115 120 125  
 Gly Gly Glu Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp  
 130 135 140  
 Val Ile Ala Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu  
 145 150 155 160  
 Asp Ser Lys Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr  
 165 170 175  
 Ala Ala Ala Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala  
 180 185 190  
 Ala Glu Pro Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly  
 195 200 205

Tyr Leu Asn Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu  
 210 215 220  
 Ala Val Ala Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr  
 225 230 235 240  
 Thr Met Ala Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe  
 245 250 255  
 Ala Ile Leu Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu  
 260 265 270  
 Gln Leu Ser Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile  
 275 280 285  
 Cys Thr Gln Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu  
 290 295 300  
 Pro Phe Thr Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu  
 305 310 315 320  
 Pro Asp Leu Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu  
 325 330 335  
 Leu Leu Leu Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe  
 340 345 350  
 Val Asp

<210> 116  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 116  
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser  
 1 5 10 15  
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu  
 20 25 30  
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu  
 35 40 45  
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu  
 50 55 60  
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys  
 65 70 75 80  
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly  
 85 90 95  
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile Leu Lys  
 100 105 110  
 Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Tyr Ser Phe  
 115 120 125  
 Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala  
 130 135 140  
 Phe  
 145

<210> 117  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 117  
 Met Leu Arg Leu Thr Gln Thr Phe Phe Phe Ile Ser Gln Thr Leu Leu  
   1                  5                  10                  15  
 Asp Trp Phe Leu Ala Ala Ala Leu Ala Leu Pro Asn Leu Cys Ser Pro  
           20                  25                  30  
 Leu Ala Ser Asn Phe Lys Ser Arg Gln Ile Ser Ser Val Pro Ile Gln  
           35                  40                  45  
 Pro Ser Gln Gly Thr Ser Arg Val Ala Leu Gln Ile Trp Cys Gly Ser  
       50                  55                  60  
 Cys Arg Met Arg Met Ser Ser Ser Thr Ile His Ile Leu Ala Leu  
   65                  70                  75

<210> 118  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 118  
 Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly  
   1                  5                  10                  15  
 Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr  
           20                  25                  30  
 Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu  
       35                  40                  45  
 Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His  
       50                  55                  60  
 Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala Asp Cys Leu Ser  
   65                  70                  75                  80  
 Leu Ile

<210> 119  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens

<400> 119  
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
   1                  5                  10                  15  
 Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
           20                  25                  30  
 Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
       35                  40                  45  
 Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
       50                  55                  60

Ser 65 Ser Thr Lys His Lys 70 Gly Gln Asp Gly Arg 75 Ile Gly Val Val Gly 80  
 Gly Cys Gln Glu Tyr 85 Thr Gly Ala Pro Tyr 90 Phe Ala Ala Ile Ser 95 Ala  
 Leu Lys Val Gly 100 Ala Asp Leu Ser His 105 Val Phe Cys Ala Ser 110 Ala Ala  
 Ala Pro Val 115 Ile Lys Ala Tyr 120 Pro Glu Leu Ile Val 125 His Pro Val  
 Leu Asp 130 Ser Pro Asn Ala Val 135 His Glu Val Glu Lys 140 Trp Leu Pro Arg  
 Leu His 145 Ala Leu Val Val 150 Gly Pro Gly Leu Gly 155 Arg Asp Asp Ala Leu 160  
 Leu Arg Asn Val 165 Gln Gly Ile Leu Glu Val 170 Ser Lys Ala Arg Asp 175 Ile  
 Pro Val Val 180 Ile Asp Ala Asp Gly Leu 185 Trp Leu Val Ala Gln Gln Pro 190  
 Ala Leu 195 Ile His Gly Tyr Arg Lys 200 Ala Val Leu Thr Pro 205 Asn His Val  
 Glu Phe 210 Ser Arg Leu Tyr Asp 215 Ala Val Leu Arg Gly 220 Pro Met Asp Ser  
 Asp 225 Asp Ser His Gly Ser 230 Val Leu Arg Leu Ser 235 Gln Ala Leu Gly Asn 240  
 Val Thr Val Val 245 Gln Lys Gly Glu Arg Asp 250 Ile Leu Ser Asn Gly Gln 255  
 Gln Val Leu 260 Val Cys Ser Gln Glu Gly 265 Ser Ser Arg Arg Cys Gly Gly 270  
 Gln Gly Asp 275 Leu Leu Ser Gly Ser 280 Leu Gly Val Leu Val 285 His Trp Ala  
 Leu Leu 290 Ala Gly Pro Gln Lys 295 Thr Asn Gly Ser Ser 300 Pro Leu Leu Val  
 Ala 305 Ala Phe Gly Ala Cys 310 Ser Leu Thr Arg Gln 315 Cys Asn His Gln Ala 320  
 Phe Gln Lys His Gly 325 Arg Ser Thr Thr Thr 330 Ser Asp Met Ile Ala Glu 335  
 Val Gly Ala 340 Ala Phe Ser Lys Leu Phe 345 Glu Thr

<210> 120

<211> 163

<212> PRT

<213> Homo sapiens

<400> 120

Met 1 Ser Ser Arg Leu 5 Ile Tyr Thr Leu Arg 10 Cys Gly Val Phe Ala Thr 15

Phe Pro Ile Val Leu Gly Ile Leu Val Tyr Gly Leu Ser Leu Leu Cys

20					25					30					
Phe	Ser	Ala	Leu	Arg	Pro	Phe	Gly	Glu	Pro	Arg	Arg	Glu	Val	Glu	Ile
		35					40					45			
His	Arg	Arg	Tyr	Val	Ala	Gln	Ser	Val	Gln	Leu	Phe	Ile	Leu	Tyr	Phe
	50					55					60				
Phe	Asn	Leu	Ala	Val	Leu	Ser	Thr	Tyr	Leu	Pro	Gln	Asp	Thr	Leu	Lys
65					70					75					80
Leu	Leu	Pro	Leu	Leu	Thr	Gly	Leu	Phe	Ala	Val	Ser	Arg	Leu	Ile	Tyr
				85					90					95	
Trp	Leu	Thr	Phe	Ala	Val	Gly	Arg	Ser	Phe	Arg	Gly	Phe	Gly	Tyr	Gly
			100					105					110		
Leu	Thr	Phe	Leu	Pro	Leu	Leu	Ser	Met	Leu	Met	Trp	Asn	Leu	Tyr	Tyr
		115					120					125			
Met	Phe	Val	Val	Glu	Pro	Glu	Arg	Met	Leu	Thr	Ala	Thr	Glu	Ser	Arg
	130					135					140				
Leu	Asp	Tyr	Pro	Asp	His	Ala	Arg	Ser	Ala	Ser	Asp	Tyr	Arg	Pro	Arg
145					150					155					160
Pro Trp Gly															

<210> 121  
 <211> 258  
 <212> PRT  
 <213> Homo sapiens

<400> 121															
Met	Tyr	Ile	Trp	Phe	Ile	Ile	Phe	Phe	Ile	Gln	Pro	His	Lys	Glu	Glu
1				5					10					15	
Arg	Phe	Leu	Phe	Pro	Val	Tyr	Pro	Leu	Ile	Cys	Leu	Cys	Gly	Ala	Val
			20					25					30		
Ala	Leu	Ser	Ala	Leu	Gln	Lys	Cys	Tyr	His	Phe	Val	Phe	Gln	Arg	Tyr
		35				40						45			
Arg	Leu	Glu	His	Tyr	Thr	Val	Thr	Ser	Asn	Trp	Leu	Ala	Leu	Gly	Thr
	50				55						60				
Val	Phe	Leu	Phe	Gly	Leu	Leu	Ser	Phe	Ser	Arg	Ser	Val	Ala	Leu	Phe
65					70					75					80
Arg	Gly	Tyr	His	Gly	Pro	Leu	Asp	Leu	Tyr	Pro	Glu	Phe	Tyr	Arg	Ile
				85					90					95	
Ala	Thr	Asp	Pro	Thr	Ile	His	Thr	Val	Pro	Glu	Gly	Arg	Pro	Val	Asn
			100					105					110		
Val	Cys	Val	Gly	Lys	Glu	Trp	Tyr	Arg	Phe	Pro	Ser	Ser	Phe	Leu	Leu
		115					120					125			
Pro	Asp	Asn	Trp	Gln	Leu	Gln	Phe	Ile	Pro	Ser	Glu	Phe	Arg	Gly	Gln
	130					135					140				
Leu	Pro	Lys	Pro	Phe	Ala	Glu	Gly	Pro	Leu	Ala	Thr	Arg	Ile	Val	Pro
145					150					155					160

Thr Asp Met Asn Asp Gln Asn Leu Glu Glu Pro Ser Arg Tyr Ile Asp  
 165 170 175  
 Ile Ser Lys Cys His Tyr Leu Val Asp Leu Asp Thr Met Arg Glu Thr  
 180 185 190  
 Pro Arg Glu Pro Lys Tyr Ser Ser Asn Lys Glu Glu Trp Ile Ser Leu  
 195 200 205  
 Ala Tyr Arg Pro Phe Leu Asp Ala Ser Arg Ser Ser Lys Leu Leu Arg  
 210 215 220  
 Ala Phe Tyr Val Pro Phe Leu Ser Asp Gln Tyr Thr Val Tyr Val Asn  
 225 230 235 240  
 Tyr Thr Ile Leu Lys Pro Arg Lys Ala Lys Gln Ile Arg Lys Lys Ser  
 245 250 255  
 Gly Gly

<210> 122

<211> 96

<212> PRT

<213> Homo sapiens

<400> 122

Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro  
 1 5 10 15  
 Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys  
 20 25 30  
 Leu Gly Leu Gly Phe Leu Leu Leu Leu Glu Arg Met Thr Thr Asp Ser  
 35 40 45  
 Gly Ile Arg Gln Arg Ser Arg His Asp Leu Leu Gly Phe Cys Gly Cys  
 50 55 60  
 Gln His Cys Arg Ser Phe Trp Arg Leu Arg Glu Ala Leu Glu Gly Ile  
 65 70 75 80  
 Gly Thr Ser Cys Cys Arg Pro Pro Gly Arg Ala Gly Leu Phe Ile Phe  
 85 90 95

<210> 123

<211> 72

<212> PRT

<213> Homo sapiens

<400> 123

Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala  
 1 5 10 15  
 Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile  
 20 25 30  
 Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe  
 35 40 45  
 Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val



50                                      55                                      60  
 Leu Ser Pro Gly Phe His Ser Ala  
 65                                      70  
  
 <210> 124  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 124  
 Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met Leu  
 1                                      5                                      10                                      15  
 Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg Thr Leu  
                                     20                                      25                                      30  
 Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys Cys Cys Cys  
                                     35                                      40                                      45  
 Pro Cys Cys Pro Arg Leu Leu Leu Thr Arg Lys Lys Leu Gln Leu Leu  
                                     50                                      55                                      60  
 Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys Ile Thr Leu Thr Leu  
 65                                      70                                      75                                      80  
 Val Gly Leu Phe Leu Ile Pro Asp Gly Ile Tyr Asp Pro Ala Asp Ile  
                                     85                                      90                                      95  
 Ser Glu Gly Ser Thr Ala Leu Trp Ile Asn Thr Phe Leu Gly Val Ser  
                                     100                                      105                                      110  
 Thr Leu Leu Ala Leu Trp Thr Leu Gly Ile Ile Ser Arg Gln Ala Arg  
                                     115                                      120                                      125  
 Leu His Leu Gly Glu Gln Asn Met Gly Ala Lys Phe Ala Leu Phe Gln  
                                     130                                      135                                      140  
 Val Leu Leu Ile Leu Thr Ala Leu Gln Pro Ser Ile Phe Ser Val Leu  
 145                                      150                                      155                                      160  
 Ala Asn Gly Gly Gln Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr  
                                     165                                      170                                      175  
 Arg Ser Gln Val Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu  
                                     180                                      185                                      190  
 Met Thr Val Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val  
                                     195                                      200                                      205  
 Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro  
                                     210                                      215                                      220  
 Lys Val Asp Gly Leu Asp Asn Glu Arg Met Leu Tyr Ser Leu Glu Tyr  
 225                                      230                                      235                                      240  
 Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro  
                                     245                                      250                                      255  
 Pro Cys Gln His Lys Leu Ala Asp Thr Phe Asp Ser Thr Asp Glu Gly  
                                     260                                      265                                      270  
 Glu Gln Cys  
 275

<210> 125  
 <211> 627  
 <212> PRT  
 <213> Homo sapiens

<400> 125  
 Met Glu Ala Arg Val Val His Ala Leu Gln Lys Arg Gln Val Ser Leu  
   1                  5                  10                  15  
 Leu Cys Val Phe Leu Gly Val Ser Trp Ala Gly Ala Glu Pro Leu Arg  
           20                  25                  30  
 Tyr Phe Val Ala Glu Glu Thr Glu Arg Gly Thr Phe Leu Ala Asn Leu  
       35                  40                  45  
 Ala Ile Asp Leu Gly Leu Gly Val Glu Glu Leu Ser Ala Arg Gly Cys  
       50                  55                  60  
 Arg Ile Val Ser Asp Glu Thr Ile Gly Phe Leu Leu Leu Asn Pro Leu  
   65                  70                  75                  80  
 Thr Gly Asp Leu Leu Leu Asn Glu Lys Leu Asp Arg Glu Glu Leu Cys  
           85                  90                  95  
 Gly Pro Thr Glu Pro Cys Val Leu Pro Phe Gln Leu Leu Leu Glu Lys  
          100                 105                 110  
 Pro Phe Gln Ile Phe Arg Ala Glu Leu Trp Val Arg Asp Ile Asn Asp  
      115                 120                 125  
 His Ser Pro Val Phe Leu Asp Arg Glu Ile Thr Leu Asn Ile Leu Glu  
   130                 135                 140  
 Ser Thr Thr Pro Gly Ala Thr Phe Leu Leu Glu Ser Ala His Asp Ser  
 145                 150                 155                 160  
 Asp Val Gly Ile Asn Asn Leu Arg Asn Tyr Thr Ile Ser Ser Asn Val  
          165                 170                 175  
 Tyr Phe His Ile Asn Val His Asp Asn Gly Glu Gly Asn Val Tyr Ser  
      180                 185                 190  
 Glu Leu Val Leu Asp Lys Val Leu Asp Arg Glu Glu Val Pro Glu Leu  
      195                 200                 205  
 Arg Leu Thr Leu Thr Gly Leu Asp Gly Gly Ser Pro Pro Arg Ser Gly  
   210                 215                 220  
 Thr Thr Leu Ile Arg Ile Leu Val Leu Asp Ile Asn Asp Asn Val Pro  
 225                 230                 235                 240  
 Glu Phe Val Glu Ser Leu Tyr Lys Val Gln Val Pro Glu Asn Ser Pro  
          245                 250                 255  
 Val Gly Ser Leu Val Val Thr Val Ser Ala Arg Asp Leu Asp Thr Gly  
      260                 265                 270  
 Ser Asn Gly Glu Ile Val Tyr Ala Phe Phe Tyr Ala Thr Glu Arg Thr  
      275                 280                 285  
 Leu Lys Thr Phe Arg Ile Asn Ser Thr Ser Gly Asn Leu His Leu Lys  
   290                 295                 300  
 Ala Glu Leu Asn Tyr Glu Ala Ile Gln Thr Tyr Thr Leu Thr Ile Gln  
 305                 310                 315                 320

[illegible]

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<210> 126
<211> 51
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 126

Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro  
 1 5 10 15  
 Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala  
 20 25 30  
 Gly Val Ala Glu Ala Glu Ala Asn Ile Ala Gln Val Pro Pro Ile Ala  
 35 40 45  
 Arg Gln Thr  
 50

&lt;210&gt; 127

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

Met Phe Thr Gly Leu Leu Ile Tyr Leu Leu Val Ser Ser Ile Leu Ile  
 1 5 10 15  
 Ser Leu Ala Asp Arg Pro Phe Ser Ser Ile Arg Cys Leu Thr Phe Trp  
 20 25 30  
 Val Gln Phe Ile Arg Leu Cys Tyr Ile Arg Asn Thr Ser Leu Leu Pro  
 35 40 45  
 Met Thr Cys Val Ala Tyr Ile Phe Phe Leu Phe Tyr Phe Phe Thr Ile  
 50 55 60  
 Gln Lys Phe Leu Val Lys Ile Ile Asn Phe  
 65 70

&lt;210&gt; 128

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

Met Ala Ser Lys Ile Gly Ser Arg Arg Trp Met Leu Gln Leu Ile Met  
 1 5 10 15  
 Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys Phe  
 20 25 30  
 Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys Pro  
 35 40 45  
 Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val Leu  
 50 55 60  
 Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala Leu  
 65 70 75 80  
 Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile Gly  
 85 90 95  
 Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser Arg  
 100 105 110  
 Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala Gly  
 115 120 125

Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr Gly  
 130 135 140  
 Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu Gln  
 145 150 155 160  
 His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly Gly  
 165 170 175  
 Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu  
 180 185 190  
 Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala  
 195 200 205  
 Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr  
 210 215 220  
 Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu  
 225 230 235 240  
 Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp  
 245 250 255

Gly

<210> 129  
 <211> 348  
 <212> PRT  
 <213> Homo sapiens

<400> 129  
 Met Lys Glu Asp Cys Leu Pro Ser Ser His Val Pro Ile Ser Asp Ser  
 1 5 10 15  
 Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn  
 20 25 30  
 Cys Tyr His Glu Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu  
 35 40 45  
 Gly Thr Leu Ile Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg  
 50 55 60  
 Arg Pro Ile Arg Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu  
 65 70 75 80  
 Pro Ser Thr Ser Trp Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys  
 85 90 95  
 Trp Ser Leu Leu Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile  
 100 105 110  
 Ser Ala Leu Gln Leu Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn  
 115 120 125  
 Gly Asn Ile Thr Ala Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala  
 130 135 140  
 Glu Ser Ser Thr Asp Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala  
 145 150 155 160  
 Pro Gln Leu Met Arg Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg

165					170					175					
Arg	Pro	Lys	Cys	Arg	Ala	Pro	Gly	Glu	Ala	Gln	Arg	Ile	Arg	Arg	His
			180					185					190		
Arg	Phe	Ser	Ile	Asn	Gly	His	Phe	Tyr	Asn	His	Lys	Thr	Ser	Val	Phe
		195					200					205			
Thr	Pro	Ala	Tyr	Gly	Ser	Val	Thr	Asn	Val	Arg	Val	Asn	Ser	Thr	Met
	210					215					220				
Thr	Thr	Leu	Gln	Val	Leu	Thr	Leu	Leu	Leu	Asn	Lys	Phe	Arg	Val	Glu
225					230					235					240
Asp	Gly	Pro	Ser	Glu	Phe	Ala	Leu	Tyr	Ile	Val	His	Glu	Ser	Gly	Glu
				245					250					255	
Arg	Thr	Lys	Leu	Lys	Asp	Cys	Glu	Tyr	Pro	Leu	Ile	Ser	Arg	Ile	Leu
			260					265					270		
His	Gly	Pro	Cys	Glu	Lys	Ile	Ala	Arg	Ile	Phe	Leu	Met	Glu	Ala	Asp
		275					280					285			
Leu	Gly	Val	Glu	Val	Pro	His	Glu	Val	Ala	Gln	Tyr	Ile	Lys	Phe	Glu
	290					295					300				
Met	Pro	Val	Leu	Asp	Ser	Phe	Val	Glu	Lys	Leu	Lys	Glu	Glu	Glu	Glu
305					310					315					320
Arg	Glu	Ile	Ile	Lys	Leu	Thr	Met	Lys	Phe	Gln	Ala	Leu	Arg	Leu	Thr
				325					330					335	
Met	Leu	Gln	Arg	Leu	Glu	Gln	Leu	Val	Glu	Ala	Lys				
			340					345							

<210> 130  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 130															
Met	Ser	Ala	Trp	Leu	Val	Ser	Leu	Cys	Ala	Trp	Leu	Ser	Leu	Leu	Arg
1				5					10					15	
Ala	Thr	Val	Thr	Ser	Gln	Val	Ser	Ser	Ser	Pro	Ala	Pro	Val	Val	Ala
			20					25					30		
Ser	Gly	Thr	Leu	Ser	Pro	Cys	His	Pro	Pro	Gly	Ser	Pro	Ala	Ala	Ser
		35					40					45			
Ala	Cys	Leu	Leu	Ser	Pro	Gln	Ser	Pro	Cys	Arg	Arg	Ala	Ser	Lys	Trp
	50					55					60				
Arg	Ser	His	Met	Thr	Gly	Val	Ala	Pro	Ser	Asn	Arg	Gly	Ser	Ser	Cys
65					70					75					80
Glu	Ser	Ser	Gly	Ser	Gln	Gly	Lys	Pro	Ser	Gln	Arg	Ala	Gly	Ala	
				85					90					95	

<210> 131  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 131

Met His Ile Pro Leu Trp Pro Asn Trp Leu Leu Phe Val Cys Lys Leu  
 1 5 10 15  
 Leu Phe Leu Ser His Pro Ile Leu Leu Ala Cys Val Lys Cys Lys Ser  
 20 25 30  
 Gln Val Phe Pro Ala Gly Ser Asn Val Phe Leu Ser Leu Asn Gln Gly  
 35 40 45  
 Pro Thr Gly Cys Leu Leu Leu Gln Ile Lys Phe Tyr  
 50 55 60

&lt;210&gt; 132

&lt;211&gt; 267

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (175)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 132

Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly  
 1 5 10 15  
 Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe  
 20 25 30  
 Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala  
 35 40 45  
 Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp  
 50 55 60  
 Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile  
 65 70 75 80  
 Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr  
 85 90 95  
 Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val  
 100 105 110  
 Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile  
 115 120 125  
 Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser  
 130 135 140  
 Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys  
 145 150 155 160  
 Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr  
 165 170 175  
 Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro  
 180 185 190

Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp  
 195 200 205  
 Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr  
 210 215 220  
 Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala  
 225 230 235 240  
 His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu  
 245 250 255  
 Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe  
 260 265

<210> 133  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 133  
 Met Ser Asp Phe Ser Asn Leu Ser Leu Leu Phe Phe Leu Leu Val Ser  
 1 5 10 15  
 Leu Ala Lys Gly Leu Ser Ile Leu Phe Ile Tyr Ser Glu Asn His Leu  
 20 25 30  
 Leu Val Leu Phe Ile Phe Leu Ile Phe Lys Glu Thr Thr Arg Pro Ala  
 35 40 45  
 Ala Phe Cys Val Ser Val Glu Trp Ser Cys Tyr Gly Ser Gly Ser Cys Leu  
 50 55 60  
 Ser Ser Leu Ser Val Glu Trp Pro Gly Gln Cys Met Trp Arg Leu Leu  
 65 70 75 80  
 Arg Leu Pro Phe Thr Arg Val Ala Leu Pro Leu Pro Val Trp His Phe  
 85 90 95  
 His Val Thr Phe Leu Leu Lys Ser Trp Phe Thr Ala Lys Val Leu Ala  
 100 105 110  
 Phe Ile Gln  
 115

<210> 134  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 134  
 Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Ser Ser  
 1 5 10 15  
 Thr Gly Leu Pro Val Val Leu Thr Asn Val Glu Leu Gly Leu Arg Cys  
 20 25 30  
 Glu Arg Thr Ala Met Ala Cys Cys Asn Gly Ser Ser Leu Val His Pro  
 35 40 45  
 Arg Cys Ser Leu Ala Ser Val Cys Ile Ser Ala Pro Pro Ser Pro Ser  
 50 55 60  
 Val Pro Trp Lys Lys Val Arg Pro Arg Gly Gln Ile Ala Ser Thr Val



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<210> 135
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135
Met Arg Val Thr Xaa Ala Thr Xaa Ala Leu Leu Leu Ala Xaa Ile Cys
  1              5              10              15

Ser Val Gln Leu Gly Asp Ala Cys Leu Asp Ile Asp Lys Leu Leu Ala
      20              25              30

Asn Val Val Phe Asp Val Ser Gln Asp Leu Leu Lys Glu Glu Leu Ala
    35              40              45

Arg Tyr Asn Pro Ser Pro Leu Thr Glu Glu Ser Phe Leu Asn Val Gln
  50              55              60

Gln Cys Phe Ala Asn Val Ser Val Thr Glu Arg Phe Ala His Ser Val
  65              70              75              80

Val Ile Lys Lys Ile Leu Gln Ser Asn Asp Cys Ile Glu Ala Ala Phe
      85              90              95

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<210> 136
<211> 43
<212> PRT
<213> Homo sapiens

<400> 136
Met Leu Val Ser Ser Pro Phe Ser Ser Pro Val Ser Phe Trp Ala Val
 1          5          10          15
Phe Val Cys Leu Leu Leu Leu Tyr Lys Ile Arg Thr Val Asn Tyr Leu
          20          25          30
Leu Cys Arg Ser Pro Ala Phe His Ser Ala Leu
          35          40

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<210> 137

<211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 137  
 Met Glu Pro Cys Leu Ala Val Ala Leu Ser Val Tyr Ile Trp Leu Arg  
   1                  5                  10                  15  
 Ala Thr Ser Ala Lys Leu Leu Pro Asp Leu Asn Glu Ser Ala Glu Ile  
                   20                  25                  30  
 Ile Gly Pro Ser Ala Ala Glu Lys Lys  
           35                  40

<210> 138  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 138  
 Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met Lys Ser  
   1                  5                  10                  15  
 Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp  
                   20                  25                  30  
 Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser  
           35                  40                  45  
 Lys Phe Ile Ser  
       50

<210> 139  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 139  
 Met Ile Val Tyr Tyr Leu Ala Phe Phe Gly Leu Leu Asp Leu Cys Leu  
   1                  5                  10                  15  
 Gly Glu Gly Asn Phe Ser Ala Arg Glu Ala Val Trp Val Ile Cys Phe  
                   20                  25                  30  
 Phe Ala Arg Asp Tyr Ser Pro Lys Tyr Tyr Arg  
           35                  40

<210> 140  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 140  
 Met Ile Leu Gly Leu Leu Asn Leu Leu Arg Ile Val Val Phe Leu Ile  
   1                  5                  10                  15  
 Ala Trp Ser Ile Leu Glu Tyr Val Thr His Gly Asp Glu Lys Asp Ile  
                   20                  25                  30  
 Tyr Thr Met Leu Val Ser Asp Glu Glu Phe His Ile Cys Leu Leu Glu  
           35                  40                  45

<210> 141  
 <211> 410  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 141  
 Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln  
 1 5 10 15  
 Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys  
 20 25 30  
 Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys  
 35 40 45  
 Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala  
 50 55 60  
 Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Xaa Ile Pro  
 65 70 75 80  
 Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Tyr Cys Thr Asp  
 85 90 95  
 Asp Met Leu Gln Arg Glu Met Met Ser Asn Pro Phe Leu Gly Ser Tyr  
 100 105 110  
 Gly Val Ile Ile Leu Asp Asp Ile His Glu Arg Ser Ile Ala Thr Asp  
 115 120 125  
 Val Leu Leu Gly Leu Leu Lys Asp Val Leu Leu Ala Arg Pro Glu Leu  
 130 135 140  
 Lys Leu Ile Ile Asn Ser Ser Pro His Leu Ile Ser Lys Leu Asn Ser  
 145 150 155 160  
 Tyr Tyr Gly Asn Val Pro Val Xaa Glu Val Lys Asn Lys His Pro Val  
 165 170 175  
 Glu Val Val Tyr Leu Ser Glu Ala Gln Lys Asp Ser Phe Glu Ser Ile  
 180 185 190  
 Leu Arg Leu Ile Phe Glu Ile His His Ser Gly Glu Lys Gly Asp Ile  
 195 200 205  
 Val Val Phe Leu Ala Cys Glu Gln Asp Ile Glu Lys Val Cys Glu Thr  
 210 215 220  
 Val Tyr Gln Gly Ser Asn Leu Asn Pro Asp Leu Gly Glu Leu Val Val  
 225 230 235 240  
 Val Pro Leu Tyr Pro Lys Glu Lys Cys Ser Leu Phe Lys Pro Leu Asp  
 245 250 255

Glu Thr Glu Lys Arg Cys Gln Val Tyr Gln Arg Arg Val Val Leu Thr  
 260 265 270  
 Thr Ser Ser Gly Glu Phe Leu Ile Trp Ser Asn Ser Val Arg Phe Val  
 275 280 285  
 Ile Asp Val Gly Val Glu Arg Arg Lys Val Tyr Asn Pro Arg Ile Arg  
 290 295 300  
 Ala Asn Ser Leu Val Met Gln Pro Ile Ser Gln Ser Gln Ala Glu Ile  
 305 310 315 320  
 Arg Lys Gln Ile Leu Gly Ser Ser Ser Ser Gly Lys Phe Phe Cys Leu  
 325 330 335  
 Tyr Thr Glu Glu Phe Ala Ser Lys Asp Met Thr Pro Leu Lys Pro Ala  
 340 345 350  
 Glu Met Gln Glu Ala Asn Leu Thr Ser Met Val Leu Phe Met Lys Arg  
 355 360 365  
 Ile Asp Ile Ala Gly Leu Gly His Cys Asp Phe Met Asn Arg Pro Gly  
 370 375 380  
 Ser Leu Met Leu Pro Cys Gln Pro Gly Ile Arg Leu Arg Phe Thr Phe  
 385 390 395 400  
 Ser Cys Pro Phe Ser Val Leu Ser Ser His  
 405 410

<210> 142  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 142  
 Met Leu Arg Phe Leu Gly Asn Gln Met Tyr Ala Leu Tyr Thr Trp Leu  
 1 5 10 15  
 Leu Leu Gln Ser Pro Val Cys Ser Ala Val Leu Val Thr Ser Ala Leu  
 20 25 30  
 Leu Tyr Pro Ser Leu Leu Thr Leu Arg Pro Ser Gln Ala His Ala Ala  
 35 40 45  
 Cys Ile Tyr Leu Pro Ser Val Ser Leu Val Ser Leu Ser Asp Pro Phe  
 50 55 60

<210> 143  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 143  
 Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr  
 1 5 10 15  
 Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val  
 20 25 30

Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys  
           35                          40

<210> 144  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 144  
 Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp  
   1                  5                  10                  15  
 Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly  
           20                  25                  30  
 Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu  
           35                  40                  45  
 Phe Phe Gly Thr Val Arg Gly Asn Gly Phe  
   50                  55

<210> 145  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Met Ala His Ile Gly Ala Cys Val Ser Phe Val Phe Phe Leu Leu Gln  
   1                  5                  10                  15  
 Gly Ala Val Ser Val Trp Thr Phe Cys Phe Arg Glu Leu Glu Arg Arg  
           20                  25                  30  
 Val Ser Ala Glu Gly Gly Glu Gln Gly Gln Arg Pro His Trp Pro Pro  
           35                  40                  45  
 Pro Ala Ser Gln Ser Glu Thr Leu Cys Leu Val Thr Lys Val Pro Pro  
   50                  55                  60  
 Lys Cys Ser Ser Phe Trp Val Ile Gln Ala Lys Tyr Leu Gly Phe Pro  
   65                  70                  75                  80  
 Leu Ser Ser Phe Pro Ser Lys Pro Gln Leu Ser Phe Lys Ile Gly Asp  
           85                  90                  95  
 Ile Ser His Pro Leu Pro Leu  
           100

<210> 146  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Met Met Pro Leu Lys Leu His Ala Lys Cys Leu Tyr Leu Leu Lys Cys  
   1                  5                  10                  15  
 Val Phe Phe Val Gly Val Gly Gly Met Thr Phe Tyr Gln Ile Leu Thr  
           20                  25                  30  
 Gly Phe Lys Ile Gln Lys Ser Leu Asp Leu Val Gly  
   35                  40

<210> 147  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 147  
 Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu  
   1                  5                  10                  15  
 Thr Phe Leu Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe  
                   20                  25                  30  
 Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu  
           35                  40                  45  
 Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly  
       50                  55                  60  
 Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln  
   65                  70                  75                  80  
 Arg His Gly Ser Lys Lys Asp  
                   85

<210> 148  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 Met Ala Ser Pro Ser Ile Ile Leu Leu Leu Ile Phe Phe Phe Phe Phe  
   1                  5                  10                  15  
 Phe Phe Ser Val Cys Ser Val Ser Gln Tyr Met Phe Glu Asn Glu Cys  
                   20                  25                  30  
 Glu Ser Met Ser Arg Arg Arg Gly Arg Gly Leu Gly Arg Ser Arg Leu  
       35                  40                  45  
 Lys Val Glu Gln Gly Pro Asp Ala Asp Leu His Pro Arg Thr Leu Gly  
       50                  55                  60  
 Ser  
   65

<210> 149  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 149  
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile  
   1                  5                  10                  15  
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val  
                   20                  25                  30  
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro  
       35                  40                  45  
 Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro  
       50                  55                  60

Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly  
 65 70 75 80

Ala Glu Ser Ala Leu Leu Gly  
 85

<210> 150  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 150  
 Met Lys Ile Pro Leu His Val Val Phe Leu Leu Ile Ser Leu Thr Phe  
 1 5 10 15  
 Leu Phe Thr Thr Leu Pro Thr Ala His Ser Ala Pro Ser Ser Pro Ala  
 20 25 30  
 Ser Leu His Ile Leu Arg Leu Arg Gly His Leu Met Cys Val Phe Pro  
 35 40 45  
 Leu Lys Met Met Pro Thr Leu Ile  
 50 55

<210> 151  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 151  
 Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu  
 1 5 10 15  
 Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys  
 20 25 30  
 Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile  
 35 40 45

<210> 152  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 152  
 Met Asp Ser Cys Leu Phe Leu Arg Asp Phe Cys Trp Lys Met Arg Met  
 1 5 10 15  
 Leu Thr Ile Leu Pro Leu Gly Thr Leu Phe Pro Leu Leu Thr Leu Leu  
 20 25 30  
 Leu Leu Pro Leu Glu Val Pro Ser Val Ser Cys Gly Val Pro Phe Ala  
 35 40 45  
 Val Trp Asp Leu  
 50

<210> 153  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 153

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Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser
 1           5           10           15
Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly
           20           25           30
Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu
           35           40           45
Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu
 50           55           60
Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu
 65           70           75           80

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&lt;210&gt; 154

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 154

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Met Asn Ile Pro Trp Leu Tyr Phe Val Asn Ser Phe Leu Ile Ala Thr
 1           5           10           15
Val Tyr Trp Phe Asn Cys His Lys Leu Asn Leu Lys Asp Ile Gly Leu
           20           25           30
Pro Leu Asp Pro Phe Val Asn Trp Lys Cys Cys Phe Ile Pro Leu Thr
           35           40           45
Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro Ile Ser Ile Met Ile Cys
 50           55           60

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&lt;210&gt; 155

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 155

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Met Ser Phe Asp Ala Glu Lys Phe Leu Ile Leu Lys Phe Ile Leu Gln
 1           5           10           15
Phe Phe Leu Leu Leu Tyr Val Leu Phe Leu Val Leu Tyr Leu Arg Ile
           20           25           30
Cys Cys His Thr Gln Gly His Glu Asp Leu Pro Val Cys Tyr Leu Leu
           35           40           45
Arg Val Leu
 50

```

&lt;210&gt; 156

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 156

Met Ala Lys Arg Ser Ser Ser Leu Ser Ser Ser Lys Arg Leu Val Phe  
 1 5 10 15

Phe Thr Ala Leu Ala Ser Trp Leu Trp Arg Val Pro Glu Ser Leu Gly  
 20 25 30

Ser Pro Leu Asp Leu Leu Ser Asp Ala Lys Trp Val Cys Glu Ala Gly  
 35 40 45

Ile Phe His Trp Ser Ser Ser Ser Leu Leu Asn Asn Arg Ala Asp Ala  
 50 55 60

Phe Phe Leu Glu Ser Ser Glu Ala Phe Ala Phe Ser Ser Leu  
 65 70 75

&lt;210&gt; 157

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 157

Met Lys Met Asn Lys Leu Phe Trp Ile Arg Ile Leu Lys Leu Leu Leu  
 1 5 10 15

Gln Ala Leu Ser Gln Cys Lys Leu Leu Ile Lys Gly Gln Val Ala Val  
 20 25 30

Pro Lys Asp Leu Ile Met Asp Ser Glu Ile Ala Lys Val Thr Asn  
 35 40 45

&lt;210&gt; 158

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 158

Met Asn Leu Leu His Cys Leu Tyr Met Ile Asn Ile Ile Ile Tyr Ile  
 1 5 10 15

Phe Cys Ile Lys Leu Ile Trp Leu His Leu Ser Cys Ile Leu Ser His  
 20 25 30

Ile Ser Phe Ile Ser Ser Met Asp Met Ser Arg Ser Leu Tyr Trp Ser  
 35 40 45

Pro Val Cys Ala Val  
 50

&lt;210&gt; 159

&lt;211&gt; 262

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 159

Met Arg Leu Arg Leu Arg Leu Leu Ala Leu Leu Leu Leu Leu Ala  
 1 5 10 15

Pro Pro Ala Arg Ala Pro Lys Pro Ser Ala Gln Asp Val Ser Leu Gly  
 20 25 30

Val Asp Trp Leu Thr Arg Tyr Gly Tyr Leu Pro Pro Pro His Pro Ala  
 35 40 45

Gln Ala Gln Leu Gln Ser Pro Glu Lys Leu Arg Asp Ala Ile Lys Val  
           50                          55                          60  
 Met Gln Arg Phe Ala Gly Leu Pro Glu Thr Gly Arg Met Asp Pro Gly  
   65                          70                          75                          80  
 Thr Val Ala Thr Met Arg Lys Pro Arg Cys Ser Leu Pro Asp Val Leu  
                           85                          90                          95  
 Gly Val Ala Gly Leu Val Arg Arg Gly Arg Arg Tyr Ala Leu Ser Gly  
                           100                          105                          110  
 Ser Val Trp Lys Lys Arg Thr Leu Thr Trp Arg Val Arg Ser Phe Pro  
                           115                          120                          125  
 Gln Ser Ser Gln Leu Ser Gln Glu Thr Val Arg Val Leu Met Ser Tyr  
   130                          135                          140  
 Ala Leu Met Ala Trp Gly Met Glu Ser Gly Leu Thr Phe His Glu Val  
  145                          150                          155                          160  
 Asp Ser Pro Gln Gly Gln Glu Pro Asp Ile Leu Ile Asp Phe Ala Arg  
                           165                          170                          175  
 Ala Phe His Gln Asp Ser Tyr Pro Phe Asp Gly Leu Gly Gly Thr Leu  
                           180                          185                          190  
 Ala His Ala Phe Phe Pro Gly Glu His Pro Ile Ser Gly Asp Thr His  
                           195                          200                          205  
 Phe Asp Asp Glu Glu Thr Trp Thr Phe Gly Ser Lys Asp Gly Glu Gly  
   210                          215                          220  
 Thr Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Leu Gly  
  225                          230                          235                          240  
 Leu Gly His Ser Ser Ala Pro Asn Ser Ile Met Arg Pro Phe Tyr Gln  
                           245                          250                          255  
 Gly Pro Val Gly Arg Pro  
                           260

&lt;210&gt; 160

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

Met Thr Leu Ala Leu Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp  
   1                          5                          10                          15  
 Ala Asn Arg Cys Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln  
                           20                          25                          30  
 Leu Ala Ala Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro  
                           35                          40                          45  
 Cys Phe Arg Asp Lys Cys His Pro Leu Tyr Arg Glu Leu Ile Thr Tyr  
   50                          55                          60  
 Val Ser Arg Met Tyr Ser Lys Trp Gln Ala Ala Leu Gly Phe Pro Val  
   65                          70                          75                          80  
 Phe Asp Lys Val Ala Ser Pro Gly Ile Ser Trp Arg Thr Val Val

85

90

95

<210> 161  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 161  
 Met Leu Asn Leu Gly Ser Trp Pro Gly Leu Val Ala Ala Ser Leu Phe  
   1                  5                  10                  15  
 Leu Leu Lys Gly Val Phe Ser Leu Phe Val Gln Leu Leu Lys Asn Pro  
                   20                  25                  30  
 Leu Gln His Pro Arg Asn Arg Ala Thr His Leu Leu Ala Thr Pro Gly  
                   35                  40                  45  
 Ala Arg Val Leu Gln Glu His Leu Ser Ile His Pro Val Cys His Gln  
                   50                  55                  60  
 Ser His Pro Pro Glu Ala Pro Leu Leu Pro Pro Ser Thr Arg Ala Ser  
   65                  70                  75                  80  
 Leu Gln Ala Ser Pro Pro Pro Pro Pro Ser Ser Gln His Pro Gly Gly  
                   85                  90                  95  
 Thr Pro Ala Ala Cys Leu Gln Ser Lys Leu Pro Ile Thr His Arg Arg  
                   100                  105                  110  
 Ser Pro Leu Arg Arg Pro Arg His  
                   115                  120

<210> 162  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 162  
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr  
   1                  5                  10                  15  
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr  
                   20                  25                  30  
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val  
                   35                  40                  45  
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser  
   50                  55                  60  
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala  
   65                  70                  75                  80  
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val  
                   85                  90                  95  
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu  
                   100                  105                  110  
 Phe Phe His His Phe Tyr His His Gln  
                   115                  120

<210> 163

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

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Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
 1          5          10          15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
    20          25          30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
    35          40          45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
    50          55          60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
    65          70          75          80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
    85          90          95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
    100          105          110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
    115          120          125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
    130          135          140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
    145          150          155          160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
    165          170          175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
    180          185          190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
    195          200          205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
    210          215          220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
    225          230          235          240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
    245          250          255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
    260          265          270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
    275          280          285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
    290          295          300

Lys Ser Ser Phe Val Ile
    305          310

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&lt;210&gt; 164

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 164

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
 1 5 10 15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
 35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
 50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe  
 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly  
 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu  
 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu  
 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys  
 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys  
 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn  
 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala  
 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu  
 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu  
 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe  
 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro  
 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His  
 290 295 300

Lys Ser Ser Phe Val Ile  
 305 310

<210> 165  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
           1                  5                  10                  15  
 Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
                   20                  25                  30  
 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
           35                  40                  45  
 Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
           50                  55                  60  
 Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
           65                  70                  75                  80  
 Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
                   85                  90                  95  
 Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
                   100                  105                  110  
 Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
           115                  120                  125  
 Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
           130                  135                  140  
 Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
           145                  150                  155                  160  
 Ala Val His Pro Thr Gly Thr Lys Ala Leu  
                   165                  170

<210> 166  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
           1                  5                  10                  15  
 Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
                   20                  25                  30  
 Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
           35                  40                  45  
 Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
           50                  55                  60  
 Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
           65                  70                  75                  80  
 Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu  
                   85                  90                  95  
 Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro

100

105

110

His Leu

&lt;210&gt; 167

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 167

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
 1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
 35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
 65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu  
 85 90 95

Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro  
 100 105 110

His Leu

&lt;210&gt; 168

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 168

Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro  
 1 5 10 15

Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys  
 20 25 30

Leu Gly Leu Gly Phe Leu Leu Leu Leu Glu Arg Met Thr Thr Asp Ser  
 35 40 45

Gly Ile Arg Gln Arg Arg Gln Thr  
 50 55

&lt;210&gt; 169

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 169

Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro  
 1 5 10 15

Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala

	20		25		30
Gly Val Ala	Glu Ala Glu Ala Asn	Ile Ala Gln Val	Pro	Pro Ile Ala	
35	40		45		

Arg Gln Thr  
50

<210> 170  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 170	Met Leu Pro Ala Leu Arg Gly Leu Leu Phe Val Thr Trp Val Phe Pro
1	5 10 15
Leu Glu Asp Gln Glu Ala Ala Ala Phe Pro Gly Glu Val Asp Pro Pro	20 25 30
Ser Pro Phe Gly Pro Cys Thr Ala Glu Gly Pro Ala Ala Leu Pro Ala	35 40 45
Arg Val Trp Ser Val Lys Gln Gly Leu Arg Pro Phe Ser Cys Ser Asp	50 55 60
Ala Pro Gln Gly Asp Ser Arg Glu Leu Ala Lys Pro Pro Gly Leu Pro	65 70 75 80
Pro Val Arg Gly Ala Leu Val Thr Trp Pro Pro Pro Gln Pro Thr Gly	85 90 95
Leu Ser Arg Leu Arg Cys His Pro His Gly Thr Gly Gly Asn His Ser	100 105 110
Ile Arg Cys Arg Arg Cys Arg Pro	115 120

<210> 171  
<211> 263  
<212> PRT  
<213> Homo sapiens

<400> 171	Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys Trp Ser Leu Leu Leu
1	5 10 15
Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile Ser Ala Leu Gln Leu	20 25 30
Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn Gly Asn Ile Thr Ala	35 40 45
Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala Glu Ser Ser Thr Asp	50 55 60
Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala Pro Gln Leu Met Arg	65 70 75 80
Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg Arg Pro Lys Cys Arg	85 90 95
Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His Arg Phe Ser Ile Asn	100 105 110



Gly His Phe Tyr Asn His Lys Thr Ser Val Phe Thr Pro Ala Tyr Gly  
           115                                  120                  125  
 Ser Val Thr Asn Val Arg Val Asn Ser Thr Met Thr Thr Leu Gln Val  
       130                                  135                  140  
 Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu Asp Gly Pro Ser Glu  
   145                                  150                  155                  160  
 Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu Arg Thr Lys Leu Lys  
                                   165                  170                  175  
 Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu His Gly Pro Cys Glu  
                                   180                  185                  190  
 Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp Leu Gly Val Glu Val  
                                   195                  200                  205  
 Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu Met Pro Val Leu Asp  
       210                                  215                  220  
 Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu Arg Glu Ile Ile Lys  
   225                                  230                  235                  240  
 Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr Met Leu Gln Arg Leu  
                                   245                  250                  255  
 Glu Gln Leu Val Glu Ala Lys  
                                   260

<210> 172

<211> 157

<212> PRT

<213> Homo sapiens

<400> 172

Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu  
   1                                  5                  10                  15  
 Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg  
                                   20                  25                  30  
 Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile  
                                   35                  40                  45  
 Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe  
       50                                  55                  60  
 Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys  
   65                                  70                  75                  80  
 Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro  
                                   85                  90                  95  
 His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln  
                                   100                  105                  110  
 Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly  
                                   115                  120                  125  
 Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp  
   130                                  135                  140  
 Asn Glu Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe

145

150

155

&lt;210&gt; 173

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 173

Glu Ser Ala Pro Pro Trp Leu Pro Ile Cys Pro Thr Arg Ser Leu Gly  
 1 5 10 15

Leu Leu Val Gln Leu Leu Ala Leu Ala Gly Ser Cys Ser Ala Gly Pro  
 20 25 30

Arg Ala Leu Gly Gln Ala Ser Gly Val Val Arg Thr Thr Lys Pro Leu  
 35 40 45

Leu Ser Pro Ser Thr Pro Leu Asp Leu Gly Pro Pro Glu Pro Pro Ala  
 50 55 60

Gly Trp Ala Tyr Thr Ser Ser  
 65 70

&lt;210&gt; 174

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 174

Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Phe Leu  
 1 5 10 15

Tyr Arg Pro Ala Cys Gly Thr Asp Gln Cys Gly Ala Trp Ser Lys Val  
 20 25 30

Arg	Arg	Thr	Ala	Met	Ala	Xaa	Ala	Thr	Gly	Ala	Ala	Xaa	Ser	Thr	Pro
		35					40					45			
Xaa	Ala	Xaa	Trp	Leu	Leu	Ser	Val	Ser	His	Thr	Thr	Leu	Xaa	Leu	Xaa
	50					55					60				
Ala	Met	Glu	Lys	Gly	Glu	Ala	Gln	Arg	Ala	Asn	Cys	Gln	His	Ser	Cys
	65				70					75					80
Val	Asp	Thr	Leu	Gly	Pro	Gln	His	Gln	Pro						
				85					90						

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<210> 175
<211> 155
<212> PRT
<213> Homo sapiens
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<400> 175															
Met 1	Glu	Asn	Phe	Ile 5	Lys	Val	Gln	Leu	Arg 10	Asp	Gly	Asp	Ser	Asn 15	Cys
Glu	Trp	Ser	Val 20	Leu	Tyr	Val	Ile	Ile 25	Ala	Thr	Phe	Val	Ile 30	Val	Val
Ala	Leu	Gly 35	Ile	Leu	Ser	Trp	Thr 40	Val	Ile	Cys	Cys	Cys 45	Lys	Arg	Gln
Lys	Gly 50	Lys	Pro	Lys	Arg	Lys 55	Ser	Lys	Tyr	Lys	Ile 60	Leu	Asp	Ala	Thr
Asp 65	Gln	Glu	Ser	Leu	Glu 70	Leu	Lys	Pro	Thr	Ser 75	Arg	Ala	Gly	Lys	Glu 80
Lys	Arg	Met	Ser	Leu 85	Ser	Gly	Leu	Asn	Gln 90	Ser	Ser	Trp	Ile	Leu 95	Glu
Met	Lys	Asn	Gln 100	Gln	Glu	Thr	Pro	Gly 105	Ile	Lys	Gln	Lys	Gly 110	Leu	Leu
Leu	Ser	Ser 115	Ser	Leu	Met	His	Ser 120	Glu	Ser	Glu	Leu	Asp 125	Ser	Asp	Asp
Ala	Ile 130	Phe	Thr	Trp	Pro	Asp 135	Arg	Glu	Lys	Gly	Lys 140	Leu	Leu	His	Gly
Gln 145	Asn	Gly	Ser	Val	Pro 150	Asn	Gly	Arg	Pro	Leu 155					

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<210> 176
<211> 102
<212> PRT
<213> Homo sapiens
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<400> 176  
Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln  
1 5 10 15  
Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys  
20 25 30  
Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys  
35 40 45

Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala  
 50 55 60  
 Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro  
 65 70 75 80  
 Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly  
 85 90 95  
 Val Gln Ser Ala Pro Cys  
 100

<210> 177  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 177  
 Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp  
 1 5 10 15  
 Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly  
 20 25 30  
 Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu  
 35 40 45  
 Phe Phe Gly Thr Val Arg Gly Asn Gly Phe  
 50 55

<210> 178  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 178  
 Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu  
 1 5 10 15  
 Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys  
 20 25 30  
 Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile  
 35 40 45

<210> 179  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 179  
 Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu  
 1 5 10 15  
 Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu  
 20 25 30  
 Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu  
 35 40 45  
 Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys  
 50 55 60

Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser  
65 70 75 80

Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys  
85 90 95

Ala Glu

<210> 180

<211> 392

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 180

Met Ala Pro Trp Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly  
1 5 10 15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser  
20 25 30

Pro Pro Pro Gln Ser Ser Pro Pro Gln Pro His Pro Cys His Thr  
35 40 45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile  
50 55 60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu  
65 70 75 80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly  
85 90 95

Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser  
100 105 110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro  
115 120 125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro  
130 135 140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu  
145 150 155 160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly  
165 170 175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys  
180 185 190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His  
195 200 205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro  
210 215 220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His  
225 230 235 240

Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala  
 245 250 255  
 Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly  
 260 265 270  
 Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly  
 275 280 285  
 Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys  
 290 295 300  
 Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile  
 305 310 315 320  
 Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val  
 325 330 335  
 Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr  
 340 345 350  
 Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala  
 355 360 365  
 Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val  
 370 375 380  
 Leu Glu Gly Phe Ile Lys Gly Arg  
 385 390

<210> 181  
 <211> 434  
 <212> PRT  
 <213> Homo sapiens

<400> 181  
 Met Ala Pro Glu Gly Leu Val Pro Ala Val Leu Trp Gly Leu Ser Leu  
 1 5 10 15  
 Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser Pro Pro Pro  
 20 25 30  
 Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr Cys Arg Gly  
 35 40 45  
 Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile Arg Asp Asn  
 50 55 60  
 Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu Ser Lys Tyr  
 65 70 75 80  
 Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly Val Cys Ser  
 85 90 95  
 Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser Glu Glu Leu  
 100 105 110  
 Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro Asp Leu Phe  
 115 120 125  
 Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro Ala Gly Thr  
 130 135 140  
 Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu Arg Pro Cys  
 145 150 155 160

Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly Gly Ser Gly  
 165 170 175  
 His Cys Asp Cys Gln Ala Gly Tyr Gly Glu Ala Cys Gly Gln Cys  
 180 185 190  
 Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val Cys  
 195 200 205  
 Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro Glu Glu Ser  
 210 215 220  
 Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His Leu Lys Cys  
 225 230 235 240  
 Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys Gly Ala Asp  
 245 250 255  
 Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg Asp Cys Ala  
 260 265 270  
 Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg Cys Lys Lys  
 275 280 285  
 Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu Asp Val Asp  
 290 295 300  
 Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln Cys Glu Asn  
 305 310 315 320  
 Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr Lys Gln Met  
 325 330 335  
 Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Gly Ala Phe Pro Ile Leu  
 340 345 350  
 Thr Asp Leu Thr Pro Glu Thr Thr Arg Arg Trp Lys Leu Gly Ser His  
 355 360 365  
 Pro His Ser Thr Tyr Val Lys Met Lys Met Gln Arg Asp Glu Ala Thr  
 370 375 380  
 Phe Pro Gly Leu Tyr Gly Lys Gln Val Ala Lys Leu Gly Ser Gln Ser  
 385 390 395 400  
 Arg Gln Ser Asp Arg Gly Thr Arg Leu Ile His Val Ile Asn Ala Leu  
 405 410 415  
 Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Lys Gly  
 420 425 430  
 Gly Arg

&lt;210&gt; 182

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val  
 1 5 10 15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr

20					25					30					
Ile	Leu	Tyr	Phe	Pro	Phe	Ser	Ser	His	Ser	Ser	Tyr	Thr	Val	Arg	Ser
		35					40					45			
Lys	Lys	Ile	Phe	Leu	Ser	Lys	Leu	Ile	Val	Cys	Phe	Leu	Ser	Thr	Trp
	50					55					60				
Leu	Pro	Phe	Val	Leu	Leu	Gln	Val	Ile	Ile	Val	Leu	Leu	Lys	Val	Gln
65						70					75				80
Ile	Pro	Ala	Tyr	Ile	Glu	Met	Asn	Ile	Pro	Trp	Leu	Tyr	Phe	Val	Asn
				85					90					95	
Ser	Phe	Leu	Ile	Ala	Thr	Val	Tyr	Trp	Phe	Asn	Cys	His	Lys	Leu	Asn
			100					105					110		
Leu	Lys	Asp	Ile	Gly	Leu	Pro	Leu	Asp	Pro	Phe	Val	Asn	Trp	Lys	Cys
		115					120					125			
Cys	Phe	Ile	Pro	Leu	Thr	Ile	Pro	Asn	Leu	Glu	Gln	Ile	Glu	Lys	Pro
	130					135					140				
Ile	Ser	Ile	Met	Ile	Cys										
145					150										

<210> 183  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 183															
His	Ala	Ser	Gly	Trp	Arg	Thr	Pro	Arg	Asp	Pro	Glu	Arg	Pro	Pro	Arg
1				5					10					15	
His	Ile	Gln	Thr	Ser	Ala	Ala	Pro	Ala	Pro	Ser	Gln	Pro	Ser	Trp	Asp
			20					25					30		
Ser	Arg	Ala	His	Pro	Thr	Gln	Arg	Arg	Asp	Pro	Gly	Pro	Pro	Gly	Pro
		35					40					45			
Ser	Ala	Asp	Ser	Thr	Ala	His	Phe	Pro	Gly	Pro	Pro	His	Thr	Ser	Gln
	50					55					60				
Pro	Ser	Gly	Arg	Ser	Leu	Pro	Thr	Arg	Cys	Arg	Val	Pro	Pro	Ala	Leu
65					70					75					80
Ser	Arg	Pro	Gly	Ser	Pro	Pro	Pro	Gly	Pro	Arg	Gly	Gly	Pro	Ser	Gln
				85					90					95	
Ala	Pro	Phe	Glu	Pro	Arg	Arg	Arg	Pro	Gly	Leu	Gly	Arg	Thr		
			100					105					110		

<210> 184  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 184															
His	Ala	Ser	Gly	Trp	Arg	Thr	Pro	Arg	Asp	Pro	Glu	Arg	Pro	Pro	Arg
1				5					10					15	
His	Ile	Gln	Thr	Ser	Ala	Ala	Pro	Ala	Pro	Ser	Gln	Pro	Ser	Trp	Asp
			20					25					30		



Ser Arg Ala His Pro Thr Gln Arg Arg Asp Pro Gly Pro Pro Gly Pro  
35 40 45

Ser Ala Asp Ser Thr Ala His Phe  
50 55

<210> 185

<211> 54

<212> PRT

<213> Homo sapiens

<400> 185

Pro Gly Pro Pro His Thr Ser Gln Pro Ser Gly Arg Ser Leu Pro Thr  
1 5 10 15

Arg Cys Arg Val Pro Pro Ala Leu Ser Arg Pro Gly Ser Pro Pro Pro  
20 25 30

Gly Pro Arg Gly Gly Pro Ser Gln Ala Pro Phe Glu Pro Arg Arg Arg  
35 40 45

Pro Gly Leu Gly Arg Thr  
50

<210> 186

<211> 723

<212> PRT

<213> Homo sapiens

<400> 186

His Ala Ser Ala Ser Pro Gly Arg Val Asp Ala Asp Ser Asn Ala Val  
1 5 10 15

Ala Ser Gly Pro Arg Thr Pro Ser Gly Pro Thr Arg Gln Glu Arg Leu  
20 25 30

Arg Pro Arg Pro Ala Pro Pro Gly Ser Leu Arg Arg Arg Arg Leu Pro  
35 40 45

Gly Gln Lys Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu  
50 55 60

Leu Leu Ala Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln  
65 70 75 80

Cys Ser Gln Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr  
85 90 95

Val	Pro	Arg	Asp	Val	Pro	Pro	Asp	Thr	Val	Gly	Leu	Tyr	Val	Phe	Glu
			100					105					110		

Asn Gly Ile Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly  
115 120 125

Leu Gln Leu Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser  
130 135 140

Gly Val Phe Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala  
145 150 155 160

Asn Arg Leu His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg  
165 170 175

Leu	Glu	Arg	Leu	Tyr	Leu	Gly	Lys	Asn	Arg	Ile	Arg	His	Ile	Gln	Pro
			180					185					190		
Gly	Ala	Phe	Asp	Thr	Leu	Asp	Arg	Leu	Leu	Glu	Leu	Lys	Leu	Gln	Asp
		195					200					205			
Asn	Glu	Leu	Arg	Ala	Leu	Pro	Pro	Leu	Arg	Leu	Pro	Arg	Leu	Leu	Leu
	210					215					220				
Leu	Asp	Leu	Ser	His	Asn	Ser	Leu	Leu	Ala	Leu	Glu	Pro	Gly	Ile	Leu
225					230					235					240
Asp	Thr	Ala	Asn	Val	Glu	Ala	Leu	Arg	Leu	Ala	Gly	Leu	Gly	Leu	Gln
				245					250					255	
Gln	Leu	Asp	Glu	Gly	Leu	Phe	Ser	Arg	Leu	Arg	Asn	Leu	His	Asp	Leu
			260					265					270		
Asp	Val	Ser	Asp	Asn	Gln	Leu	Glu	Arg	Val	Pro	Pro	Val	Ile	Arg	Gly
		275					280					285			
Leu	Arg	Gly	Leu	Thr	Arg	Leu	Arg	Leu	Ala	Gly	Asn	Thr	Arg	Ile	Ala
	290					295					300				
Gln	Leu	Arg	Pro	Glu	Asp	Leu	Ala	Gly	Leu	Ala	Ala	Leu	Gln	Glu	Leu
305					310					315					320
Asp	Val	Ser	Asn	Leu	Ser	Leu	Gln	Ala	Leu	Pro	Gly	Asp	Leu	Ser	Gly
			325						330					335	
Leu	Phe	Pro	Arg	Leu	Arg	Leu	Leu	Ala	Ala	Ala	Arg	Asn	Pro	Phe	Asn
			340					345					350		
Cys	Val	Cys	Pro	Leu	Ser	Trp	Phe	Gly	Pro	Trp	Val	Arg	Glu	Ser	His
		355					360					365			
Val	Thr	Leu	Ala	Ser	Pro	Glu	Glu	Thr	Arg	Cys	His	Phe	Pro	Pro	Lys
	370					375					380				
Asn	Ala	Gly	Arg	Leu	Leu	Leu	Glu	Leu	Asp	Tyr	Ala	Asp	Phe	Gly	Cys
385					390					395					400
Pro	Ala	Thr	Thr	Thr	Ala	Thr	Val	Pro	Thr	Thr	Arg	Pro	Val	Val	
				405				410					415		
Arg	Glu	Pro	Thr	Ala	Leu	Ser	Ser	Ser	Leu	Ala	Pro	Thr	Trp	Leu	Ser
			420					425					430		
Pro	Thr	Ala	Pro	Ala	Thr	Glu	Ala	Pro	Ser	Pro	Pro	Ser	Thr	Ala	Pro
		435					440					445			
Pro	Thr	Val	Gly	Pro	Val	Pro	Gln	Pro	Gln	Asp	Cys	Pro	Pro	Ser	Thr
	450					455					460				
Cys	Leu	Asn	Gly	Gly	Thr	Cys	His	Leu	Gly	Thr	Arg	His	His	Leu	Ala
465					470					475					480
Cys	Leu	Cys	Pro	Glu	Gly	Phe	Thr	Gly	Leu	Tyr	Cys	Glu	Ser	Gln	Met
				485					490					495	
Gly	Gln	Gly	Thr	Arg	Pro	Ser	Pro	Thr	Pro	Val	Thr	Pro	Arg	Pro	Pro
			500					505					510		
Arg	Ser	Leu	Thr	Leu	Gly	Ile	Glu	Pro	Val	Ser	Pro	Thr	Ser	Leu	Arg
		515					520					525			

Val Gly Leu Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser  
 530 535 540  
 Leu Arg Leu Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val  
 545 550 555 560  
 Thr Leu Arg Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu  
 565 570 575  
 Arg Pro Asn Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly  
 580 585 590  
 Arg Val Pro Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro  
 595 600 605  
 Ala Val His Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn  
 610 615 620  
 Leu Pro Leu Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala  
 625 630 635 640  
 Leu Ala Ala Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met  
 645 650 655  
 Ala Ala Ala Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro  
 660 665 670  
 Leu Glu Leu Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala  
 675 680 685  
 Thr Glu Ala Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys  
 690 695 700  
 His Ser Trp Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys  
 705 710 715 720  
 Pro Tyr Ile

&lt;210&gt; 187

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 187

His Ala Ser Gly Arg Leu Gln Thr Gln Arg Glu Gly Gly Gln Gly Val  
 1 5 10 15

Gly Arg Arg Arg Thr Glu Glu Gly Thr Glu Thr Gln Ser Lys Gly Gly  
 20 25 30

Lys Glu Glu Thr Leu Val Gly Gly Arg His Ser Gly Glu Arg Gly Gly  
 35 40 45

Trp Ala Glu  
 50

&lt;210&gt; 188

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 188

Pro Arg Val Arg Ala Glu Ser Glu Gly Thr Tyr Asp Thr Tyr Gln His

1		5		10		15									
Val	Pro	Val	Glu	Ser	Phe	Ala	Glu	Val	Leu	Leu	Arg	Thr	Gly	Lys	Leu
		20						25					30		
Ala	Glu	Ala	Lys	Asn	Lys	Gly	Glu	Val	Phe	Pro	Thr	Thr	Glu	Val	Leu
		35					40					45			
Leu	Gln	Leu	Ala	Ser	Glu	Ala	Leu	Pro	Asn	Asp					
	50					55									

<210> 189  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 189															
Thr	Leu	Asn	His	Leu	Glu	Lys	Ser	Leu	Ala	His	Leu	Glu	Thr	Leu	Ser
	1			5					10					15	
His	Ser	Phe	Ile	Leu	Ser	Leu	Lys	Asn	Ser	Glu	Gln	Glu	Thr	Leu	Gln
			20					25					30		
Lys	Tyr	Ser													
		35													

<210> 190  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 190															
His	Leu	Tyr	Asp	Leu	Ser	Arg	Ser	Glu	Lys	Glu	Lys	Leu	His	Asp	Glu
	1			5					10					15	
Ala	Val	Ala	Ile	Cys	Leu	Asp	Gly	Gln	Pro	Leu	Ala	Met	Ile	Gln	Gln
			20					25					30		
Leu	Leu	Glu	Val												
		35													

<210> 191  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 191															
Ala	Val	Gly	Pro	Leu	Asp	Ile	Ser	Pro	Lys	Asp	Ile	Val	Gln	Ser	Ala
	1			5					10					15	
Ile	Met	Lys	Ile	Ile	Ser	Ala	Leu	Ser	Gly	Gly	Ser	Ala	Asp	Leu	Gly
			20					25					30		
Gly	Pro	Arg													
		35													

<210> 192  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 192

Asp Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Ala Ser  
 1 5 10 15  
 Val Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp  
 20 25 30  
 Leu Arg Pro Phe  
 35

<210> 193  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 193  
 Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile His Val Leu Gln  
 1 5 10 15  
 Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp Ser Lys Leu Leu  
 20 25 30  
 Val Phe Phe  
 35

<210> 194  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 194  
 Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp Pro Gln Arg Gln Val Asp  
 1 5 10 15  
 Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg Tyr Cys Leu Phe Met Glu  
 20 25 30  
 Leu Leu Glu Ser Ser  
 35

<210> 195  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 195  
 His His Glu Ala Glu Phe Gln His Leu Val Leu Leu Leu Gln Ala Trp  
 1 5 10 15  
 Pro Pro Met Lys Ser Glu Tyr Val Ile Thr Asn Asn Pro Trp Val Arg  
 20 25 30  
 Leu Ala

<210> 196  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 196  
 Thr Val Met Leu Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly  
 1 5 10 15

Asn Glu Val Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met  
                   20                  25                  30

Leu Pro Ala Glu  
                   35

<210> 197  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 197  
 Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu Leu Leu  
   1                  5                  10                  15

Pro Ser Leu Lys Leu Leu Leu Glu Ser Arg Asp Glu His Leu His Glu  
                   20                  25                  30

Met Ala Leu  
                   35

<210> 198  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp Ser Asn Cys Asp Gln  
   1                  5                  10                  15

Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu Leu Val Lys Cys Val  
                   20                  25                  30

Ser Thr Pro Phe  
                   35

<210> 199  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Tyr Pro Arg Ile Val Asp His Leu Leu Ala Ser Leu Gln Gln Gly Arg  
   1                  5                  10                  15

Trp Asp Ala Glu Glu Leu Gly Arg His Leu Arg Glu Ala Gly His Glu  
                   20                  25                  30

Ala Glu Ala  
                   35

<210> 200  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Gly Ser Leu Leu Leu Ala Val Arg Gly Thr His Gln Ala Phe Arg Thr  
   1                  5                  10                  15

Phe Ser Thr Ala Leu Arg Ala Ala Gln His Trp Val

20

25

<210> 201  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 201  
 Pro Ser Ser Tyr Thr Ala Thr Met Asn Val Ser Trp Ile Ser Leu Arg  
   1                  5          10                  15  
 Arg Arg Ser Phe Arg Ala Phe Gly Arg Val Trp Thr Cys Ser Gly Leu  
           20                  25                  30  
 Leu Gln Met Thr Ser Ile  
           35

<210> 202  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 202  
 Lys Gly Lys Leu Ser Leu Val Trp Gln Arg Leu Asp Gly His Phe Cys  
   1                  5          10                  15  
 Arg Thr Leu Glu Glu Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln  
           20                  25                  30  
 Arg

<210> 203  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 203  
 Tyr Ser Val Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu  
   1                  5          10                  15  
 Phe Thr Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln  
           20                  25                  30  
 Asp Leu His  
           35

<210> 204  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Leu Phe Glu Thr Leu Lys Thr Asp Pro Glu Ala Phe His Gln His Met  
   1                  5          10                  15  
 Val Lys Tyr Ile Tyr Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu  
           20                  25                  30  
 Gln Tyr Tyr Phe  
           35

<210> 205  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Thr Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile  
   1                  5                  10                  15  
 Lys Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala  
                   20                  25                  30  
 Ser Gly Leu  
           35

<210> 206  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 206  
 Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu Ala Leu  
   1                  5                  10                  15  
 Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys Leu Val  
                   20                  25                  30  
 Pro Lys Ile Pro  
           35

<210> 207  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Glu Lys Asp Gly Gln Met Leu Ser Pro Ser Ser Leu Tyr Thr Ile Trp  
   1                  5                  10                  15  
 Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro His Leu Ile Lys Gln Val  
                   20                  25                  30  
 Pro Gly Ser Ser  
           35

<210> 208  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 208  
 Pro Glu Trp Leu His Ala Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg  
   1                  5                  10                  15  
 Leu His Pro Gly Asp Leu Ile Thr Val Val Asp Ala Val Thr Phe Ser  
                   20                  25                  30  
 Pro Lys Ala  
           35

<210> 209



<211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 209

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Met Leu Val Tyr Leu Ile Thr Gly Asp Val Lys Phe Gly Leu Leu Ala
 1          5          10          15

Arg Val Gly Cys Cys Leu Thr Val Pro Thr Glu Arg Cys Phe Phe Ser
          20          25          30

Phe Cys Ala Ala Val Lys Lys Pro Ala Pro Ala Pro Lys Pro Gly
          35          40          45

Asn Pro Pro Pro Gly His Pro Gly Gly Gln Ser Ser Ser Gly Thr Ser
 50          55          60

Gln His Pro Pro Ser Leu Ser Pro Lys Pro Pro Thr Arg Ser Pro Ser
 65          70          75          80

Pro Pro Thr Gln His Thr Gly Gln Pro Pro Gly Gln Pro Ser Ala Pro
          85          90          95

Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser Ser Ser Leu Ser Pro Ile
          100          105          110

Gln Ala Pro Asn His Pro Pro Pro Gln Pro Pro Thr Gln Ala Thr Pro
 115          120          125

Leu Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn Pro Met Ala
 130          135          140

Leu Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr Pro Pro Gln
 145          150          155          160

Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln Asn Pro Ser
          165          170          175

Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu Thr Ala Gln
          180          185          190

Pro His Ala Gly Thr Leu Pro Arg Pro Arg Pro Val Pro Lys Pro Arg
          195          200          205

Asn Arg Pro Ser Val Pro Pro Pro Pro Gln Pro Pro Gly Val His Ser
 210          215          220

Ala Gly Asp Ser Ser Leu Thr Asn Thr Ala Pro Thr Ala Ser Lys Ile
 225          230          235          240

Val Thr Asp Val
```

<210> 210  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 210

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Pro Thr Arg Pro Arg Arg Arg Ser Pro Ser Pro Thr Gln Cys Gly Ala
 1          5          10          15

Arg Arg Glu Pro Arg Arg Lys Leu Ser Ala Ser Ala Arg Gln Ala Arg
          20          25          30
```

Arg Arg Arg Ala  
35

<210> 211  
<211> 195  
<212> PRT  
<213> Homo sapiens

<400> 211  
Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala  
1 5 10 15  
Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn  
20 25 30  
Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val  
35 40 45  
Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp  
50 55 60  
Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr  
65 70 75 80  
Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser  
85 90 95  
Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly  
100 105 110  
Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val  
115 120 125  
Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly  
130 135 140  
Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe  
145 150 155 160  
Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile  
165 170 175  
Ser Phe Cys Gly Asp Thr Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro  
180 185 190  
Leu Trp Ile  
195

<210> 212  
<211> 182  
<212> PRT  
<213> Homo sapiens

<400> 212  
Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala  
1 5 10 15  
Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn  
20 25 30  
Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val  
35 40 45  
Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp

50					55					60					
Asp 65	Tyr	Gly	Asn	Gly	Phe 70	Ala	Ala	Thr	Arg	Leu 75	Phe	Gln	Lys	Lys	Thr 80
Cys	Ile	Val	His	Lys 85	Met	Asn	Lys	Glu	Val 90	Met	Pro	Ser	Ile	Gln 95	Ser
Leu	Asp	Ala	Leu 100	Val	Lys	Glu	Lys	Lys 105	Leu	Gln	Gly	Lys	Gly 110	Pro	Gly
Gly	Pro	Pro 115	Pro	Lys	Gly	Leu	Met 120	Tyr	Ser	Val	Asn	Pro 125	Asn	Lys	Val
Asp 130	Asp	Leu	Ser	Lys	Phe	Gly 135	Lys	Asn	Ile	Ala	Asn 140	Met	Cys	Arg	Gly
Ile 145	Pro	Thr	Tyr	Met	Ala 150	Glu	Glu	Met	Gln	Glu 155	Ala	Ser	Leu	Phe	Phe 160
Tyr	Ser	Gly	Thr	Cys 165	Tyr	Thr	Thr	Ser	Val 170	Leu	Trp	Ile	Val	Asp 175	Ile
Ser	Phe	Cys	Gly 180	Asp	Thr										

<210> 213  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro Leu Trp Ile  
   1                  5                  10

<210> 214  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Phe Ile Phe Ser Val Lys Lys Lys Lys Thr Asp Asp Gly Pro Ser Leu  
   1                  5                  10                  15

Gly Ala Gln Asp Gln Arg Ser Thr Pro Thr Asn Gln Lys Gly Ser Ile  
                   20                  25                  30

Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val Val Asp Gln  
                   35                  40                  45

Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp Glu Val Phe Glu  
   50                  55                  60

Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr Gln Asn Pro Val  
   65                  70                  75                  80

Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu Gly Tyr Asn Met  
                   85                  90                  95

Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys Ser Leu Met  
                   100                  105                  110

Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val Arg Asp Leu  
                   115                  120                  125

Glu His Trp His Gly Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln  
 130 135 140

Lys Asn Ala Met Asn Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr  
 145 150 155 160

Gly Glu Asn Ser Lys Ser Lys Ser Ser Lys Tyr  
 165 170

<210> 215

<211> 31

<212> PRT

<213> Homo sapiens

<400> 215

Gly Ser Ile Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val  
 1 5 10 15

Val Asp Gln Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp  
 20 25 30

<210> 216

<211> 33

<212> PRT

<213> Homo sapiens

<400> 216

Glu Val Phe Glu Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr  
 1 5 10 15

Gln Asn Pro Val Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu  
 20 25 30

Gly

<210> 217

<211> 40

<212> PRT

<213> Homo sapiens

<400> 217

Tyr Asn Met Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys  
 1 5 10 15

Ser Leu Met Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val  
 20 25 30

Arg Asp Leu Glu His Trp His Gly  
 35 40

<210> 218

<211> 38

<212> PRT

<213> Homo sapiens

<400> 218

Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln Lys Asn Ala Met Asn  
 1 5 10 15

Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr Gly Glu Asn Ser Lys

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<210> 221
<211> 39
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 221

Ser Gln Val Pro Lys Arg Thr Asp Ser Ser Glu Pro Cys Gly Leu Ser  
 1 5 10 15

Asp Leu Cys Arg Ser Leu Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys  
 20 25 30

Leu Ser His Gln Leu Leu Phe  
 35

&lt;210&gt; 222

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 222

Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln Gln  
 1 5 10 15

Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn Arg  
 20 25 30

Arg Ala Glu Ala  
 35

&lt;210&gt; 223

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 223

Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met  
 1 5 10 15

Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu  
 20 25 30

Glu Ala Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly  
 35 40

&lt;210&gt; 224

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 224

Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile  
 1 5 10 15

Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys Gln  
 20 25 30

Phe Pro Glu Tyr Trp Lys Trp Cys Pro  
 35 40

&lt;210&gt; 225

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys Leu Ser His Gln Leu Leu  
 1 5 10 15  
 Phe Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln  
 20 25 30  
 Gln Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn  
 35 40 45  
 Arg Arg Ala Glu Ala Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe  
 50 55 60  
 Met Glu Asn Ile Met Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr  
 65 70 75 80  
 Lys Leu Arg Trp Leu Glu Ala Ile Leu Ser Trp Gln Lys Gln Gln Glu  
 85 90 95  
 Gly Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala  
 100 105 110  
 Ile Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys  
 115 120 125  
 Gln Phe Pro Glu Tyr Trp Lys Trp Cys Pro  
 130 135

<210> 226  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 226  
 Phe Cys Ala Asn Met Met Asp Leu Asn Arg Arg Ala Glu Ala Ile Gly  
 1 5 10 15  
 Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met Phe Cys  
 20 25 30  
 Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu Glu Ala  
 35 40 45  
 Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly Cys Phe Gly Glu Pro Asp  
 50 55 60  
 Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile Gln Tyr Gln Gln His Phe  
 65 70 75 80  
 Ser Arg Arg Val Lys Arg Arg Glu Lys Gln Phe Pro  
 85 90

<210> 227  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 227  
 Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro  
 1 5 10 15  
 Pro Leu Trp Ser Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys  
 20 25 30  
 Ala Thr Ile Ala Asp Leu Ile Leu Ser Ala Leu Glu Arg Ala Thr Val

	35		40		45											
Phe	Leu	Glu	Gln	Arg	Leu	Pro	Glu	Ile	Asn	Leu	Asp	Gly	Met	Val	Gly	
	50					55					60					
Val	Arg	Val	Leu	Glu	Glu	Gln	Leu	Lys	Ser	Val	Arg	Glu	Lys	Trp	Ala	
65				70						75					80	
Gln	Glu	Pro	Leu	Leu	Gln	Pro	Leu	Ser	Leu	Arg	Val	Gly	Met	Leu	Gly	
			85					90						95		
Glu	Lys	Leu	Glu	Ala	Ala	Ile	Gln	Arg	Ser	Leu	His	Tyr	Leu	Lys	Leu	
			100					105					110			
Ser	Asp	Pro	Lys	Tyr	Leu	Arg										
			115													

<210> 228  
 <211> 175  
 <212> PRT  
 <213> Homo sapiens

<400> 228																
His	Glu	Ser	Ala	Arg	Gly	Arg	Trp	Glu	Gly	Gly	Gly	Arg	Arg	Ala	Cys	
1				5					10					15		
Arg	Gly	Ser	Leu	Gly	Leu	Ala	Arg	Ala	Gln	Gly	Ala	Glu	Arg	Val	Thr	
			20					25					30			
Ser	Ser	Glu	Gln	Arg	Pro	Ala	Met	Ala	Ser	Leu	Gly	Leu	Leu	Leu	Leu	
		35					40					45				
Leu	Leu	Leu	Thr	Ala	Leu	Pro	Pro	Leu	Trp	Ser	Ser	Ser	Leu	Pro	Gly	
	50					55					60					
Leu	Asp	Thr	Ala	Glu	Ser	Lys	Ala	Thr	Ile	Ala	Asp	Leu	Ile	Leu	Ser	
65					70					75					80	
Ala	Leu	Glu	Arg	Ala	Thr	Val	Phe	Leu	Glu	Gln	Arg	Leu	Pro	Glu	Ile	
				85					90					95		
Asn	Leu	Asp	Gly	Met	Val	Gly	Val	Arg	Val	Leu	Glu	Glu	Gln	Leu	Lys	
			100					105					110			
Ser	Val	Arg	Glu	Lys	Trp	Ala	Gln	Glu	Pro	Leu	Leu	Gln	Pro	Leu	Ser	
		115				120						125				
Leu	Arg	Val	Gly	Met	Leu	Gly	Glu	Lys	Leu	Glu	Ala	Ala	Ile	Gln	Arg	
	130					135					140					
Ser	Leu	His	Tyr	Leu	Lys	Leu	Ser	Asp	Pro	Lys	Tyr	Leu	Arg	Gly	Arg	
145					150					155					160	
Thr	Ala	Ala	Ser	Pro	Ala	Ala	Ser	Gln	Thr	Ser	Ala	Gly	Ala	Ser		
				165					170					175		

<210> 229  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)



<223> Xaa equals any of the naturally occurring L-amino acids

<400> 229

Lys Ser Val Gly Arg Ser Ser Pro Thr Arg Arg Tyr Arg Ala Ala Val  
 1 5 10 15  
 Gly Glu Thr Pro Ala Gly Ala Gln Xaa Gln Leu Arg Gly Arg Glu Gly  
 20 25 30  
 Arg Trp Arg Arg Leu Gly Gln Pro Phe Pro Arg Gly Ser Thr Ala Leu  
 35 40 45  
 Arg

<210> 230

<211> 55

<212> PRT

<213> Homo sapiens

<400> 230

Ile Phe Leu Phe Tyr Leu Pro Pro Ser Pro Pro Ser Arg Leu Leu Val  
 1 5 10 15  
 Pro Gly Tyr Trp Cys Leu Ala Ser Trp Gln Gly Pro Gly Thr Trp Thr  
 20 25 30  
 Ile Ser His Thr Thr Pro Arg Gly Gly Ile Phe Phe Tyr Phe Pro Tyr  
 35 40 45  
 Glu Lys Gln Ile Phe Leu Arg  
 50 55

<210> 231

<211> 479

<212> PRT

<213> Homo sapiens

<400> 231

Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser  
 1 5 10 15  
 Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met  
 20 25 30  
 Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp  
 35 40 45  
 Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr  
 50 55 60  
 Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr  
 65 70 75 80  
 Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro  
 85 90 95  
 Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln  
 100 105 110  
 Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr  
 115 120 125  
 Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Ser Pro Ser Gly

130					135					140					
Leu 145	Tyr	Gln	Leu	Asp	Leu 150	Leu	Ser	Thr	Glu	Lys 155	Asp	Thr	His	Phe	Lys 160
Val	Tyr	Ala	Thr	Thr 165	Thr	Pro	Glu	Ser	Asp 170	Gln	Pro	Tyr	Pro	Glu 175	Leu
Pro	Tyr	Asp	Pro 180	Arg	Val	Asp	Val	Thr 185	Ser	Leu	Gly	Arg	Thr 190	Thr	Val
Thr	Leu	Ala 195	Trp	Lys	Pro	Ser	Pro 200	Thr	Ala	Ser	Leu	Leu 205	Lys	Gln	Pro
Ile	Gln 210	Tyr	Cys	Val	Val	Ile 215	Asn	Lys	Glu	His	Asn 220	Phe	Lys	Ser	Leu
Cys 225	Ala	Val	Glu	Ala	Lys 230	Leu	Ser	Ala	Asp	Asp 235	Ala	Phe	Met	Met	Ala 240
Pro	Lys	Pro	Gly	Leu 245	Asp	Phe	Ser	Pro	Phe 250	Asp	Phe	Ala	His	Phe 255	Gly
Phe	Pro	Ser	Asp 260	Asn	Ser	Gly	Lys	Glu 265	Arg	Ser	Phe	Gln	Ala 270	Lys	Pro
Ser	Pro	Lys 275	Leu	Gly	Arg	His	Val 280	Tyr	Ser	Arg	Pro	Lys 285	Val	Asp	Ile
Gln	Lys 290	Ile	Cys	Ile	Gly	Asn 295	Lys	Asn	Ile	Phe	Thr 300	Val	Ser	Asp	Leu
Lys 305	Pro	Asp	Thr	Gln	Tyr 310	Tyr	Phe	Asp	Val	Phe 315	Val	Val	Asn	Ile	Asn 320
Ser	Asn	Met	Ser	Thr 325	Ala	Tyr	Val	Gly	Thr 330	Phe	Ala	Arg	Thr	Lys 335	Glu
Glu	Ala	Lys	Gln 340	Lys	Thr	Val	Glu	Leu 345	Lys	Asp	Gly	Lys	Ile 350	Thr	Asp
Val	Phe	Val 355	Lys	Arg	Lys	Gly	Ala 360	Lys	Phe	Leu	Arg	Phe 365	Ala	Pro	Val
Ser	Ser 370	His	Gln	Lys	Val	Thr 375	Phe	Phe	Ile	His	Ser 380	Cys	Leu	Asp	Ala
Val 385	Gln	Ile	Gln	Val	Arg 390	Arg	Asp	Gly	Lys	Leu 395	Leu	Leu	Ser	Gln	Asn 400
Val	Glu	Gly	Ile 405	Gln	Gln	Phe	Gln	Leu	Arg 410	Gly	Lys	Pro	Lys	Ala 415	Lys
Tyr	Leu	Val	Arg 420	Leu	Lys	Gly	Asn	Lys 425	Lys	Gly	Ala	Ser	Met 430	Leu	Lys
Ile	Leu	Ala 435	Thr	Thr	Arg	Pro	Thr 440	Lys	Gln	Ser	Phe	Pro 445	Ser	Leu	Pro
Glu	Asp 450	Thr	Arg	Ile	Lys	Ala 455	Phe	Asp	Lys	Leu	Arg 460	Thr	Cys	Ser	Ser
Ala 465	Thr	Val	Ala	Trp	Leu	Gly	Thr	Gln	Glu	Arg 475	Asn	Lys	Phe	Cys	

<210> 232  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 232  
 Xaa Arg Gly Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr  
   1                  5                  10                  15  
 Arg Asp Ile Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val  
                   20                  25                  30  
 Cys Leu Val Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe  
                   35                  40                  45  
 Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile  
                   50                  55                  60

<210> 233  
 <211> 229  
 <212> PRT  
 <213> Homo sapiens

<400> 233  
 Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile  
   1                  5                  10                  15  
 Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val Cys Leu Val  
                   20                  25                  30  
 Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe Gly Arg Arg  
                   35                  40                  45  
 Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile Met Ile Leu Thr Met  
                   50                  55                  60  
 Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg Val Ala Asn Glu Leu  
   65                  70                  75                  80  
 Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp Pro His His Phe Trp  
                   85                  90                  95  
 Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys Val Leu Ala Phe Thr  
                   100                  105                  110  
 Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile Asp Ser Ala Leu Phe  
                   115                  120                  125  
 Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr Glu Ala Met Leu Gly  
                   130                  135                  140  
 Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly Met  
   145                  150                  155                  160  
 Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys Thr  
                   165                  170                  175  
 Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln Phe Ser Val Cys Gly  
                   180                  185                  190

Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu Gly Gln Ala Tyr Ala  
 195 200 205

Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala Val His Pro Thr  
 210 215 220

Gly Thr Lys Ala Leu  
 225

<210> 234  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 234  
 Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile  
 1 5 10 15

Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr  
 20 25

<210> 235  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 235  
 Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser  
 1 5 10

<210> 236  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 236  
 Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly  
 1 5 10 15

Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys  
 20 25 30

Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
 35 40

<210> 237  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 237  
 Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala  
 1 5 10 15

Val His Pro Thr Gly Thr Lys Ala Leu  
 20 25

<210> 238  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 238

Arg Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe  
 1 5 10 15

Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln  
 20 25 30

&lt;210&gt; 239

&lt;211&gt; 383

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 239

Arg Thr Gly Trp Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro His  
 1 5 10 15

Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly  
 20 25 30

Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg  
 35 40 45

Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala  
 50 55 60

Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser  
 65 70 75 80

Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met  
 85 90 95

Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met  
 100 105 110

Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu  
 115 120 125

Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu  
 130 135 140

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu  
 145 150 155 160

Gly Gln Ser Leu Gln Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala  
 165 170 175

Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys  
 180 185 190

Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala  
 195 200 205

Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro  
 210 215 220

Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn

225				230					235				240		
Leu	Leu	Ala	Asn	Thr 245	Ile	Asp	Asn	Phe	Thr 250	His	Gly	Leu	Ala	Val 255	Ala
Ala	Ser	Phe	Leu 260	Val	Ser	Lys	Lys	Ile 265	Gly	Leu	Leu	Thr	Thr 270	Met	Ala
Ile	Leu	Leu 275	His	Glu	Ile	Pro	His 280	Glu	Val	Gly	Asp	Phe 285	Ala	Ile	Leu
Leu	Arg 290	Ala	Gly	Phe	Asp	Arg 295	Trp	Ser	Ala	Ala	Lys 300	Leu	Gln	Leu	Ser
Thr 305	Ala	Leu	Gly	Gly	Leu 310	Leu	Gly	Ala	Gly	Phe 315	Ala	Ile	Cys	Thr	Gln 320
Ser	Pro	Lys	Gly	Val 325	Glu	Glu	Thr	Ala	Ala 330	Trp	Val	Leu	Pro	Phe 335	Thr
Ser	Gly	Gly	Phe 340	Leu	Tyr	Ile	Ala	Leu 345	Val	Asn	Val	Leu	Pro 350	Asp	Leu
Leu	Glu	Glu 355	Glu	Asp	Pro	Trp	Arg 360	Ser	Leu	Gln	Gln	Leu 365	Leu	Leu	Leu
Cys	Ala 370	Gly	Ile	Val	Val	Met 375	Val	Leu	Phe	Ser	Leu 380	Phe	Val	Asp	

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<210> 240
<211> 24
<212> PRT
<213> Homo sapiens
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```
<400> 240
Arg Val Arg Lys Trp Glu Arg Ser Gln Pro Arg Leu Leu Tyr Thr Gly
  1          5          10          15
Lys Leu Ser Gly Pro Gln Ala Arg
  20
```

```
<210> 241
<211> 97
<212> PRT
<213> Homo sapiens
```

<400> 241															
Ser	Pro	Ala	Trp	Ala	Gln	Leu	Pro	Gln	Ser	His	Pro	Leu	Pro	Thr	Ala
1				5					10					15	
Ser	Gly	Leu	Lys	Asn	Ile	Pro	Gly	Ile	Arg	Gly	Ala	Leu	Thr	Thr	Arg
			20					25					30		
Pro	Ser	Glu	Ser	Pro	Pro	Ala	Trp	Asn	Leu	Ala	Ile	Ser	Asn	Leu	Leu
		35					40					45			
Pro	Ser	Ala	Ser	Trp	Ile	Lys	Leu	Glu	Thr	Ala	Gly	Thr	Pro	Gly	Met
	50					55					60				
Ser	Leu	Pro	Ile	Leu	Pro	Cys	Leu	Cys	Ser	Phe	Leu	Asp	Leu	Thr	Tyr
65					70					75					80
Tyr	Phe	Phe	Cys	Phe	Cys	Phe	His	Pro	Ser	Cys	Leu	Ser	Cys	Pro	Glu
				85					90					95	

Gly

&lt;210&gt; 242

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 242

Arg	Pro	Ser	Glu	Ser	Pro	Pro	Ala	Trp	Asn	Leu	Ala	Ile	Ser	Asn	Leu
1				5					10					15	

Leu	Pro	Ser	Ala	Ser	Trp	Ile	Lys	Leu	Glu	Thr	Ala	Gly	Thr	Pro	Gly
			20					25					30		

Met	Ser	Leu	Pro
		35	

&lt;210&gt; 243

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 243

Ile	Leu	Pro	Cys	Leu	Cys	Ser	Phe	Leu	Asp	Leu	Thr	Tyr	Tyr	Phe	Phe
1				5					10					15	

Cys	Phe	Cys	Phe	His	Pro	Ser	Cys	Leu	Ser	Cys	Pro	Glu	Gly
			20					25					30

&lt;210&gt; 244

&lt;211&gt; 203

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 244

Met	Gly	Arg	Asp	Ile	Pro	Gly	Val	Pro	Ala	Val	Ser	Ser	Leu	Ile	Gln
1				5					10					15	

Glu	Ala	Leu	Gly	Arg	Arg	Leu	Leu	Met	Ala	Arg	Phe	Gln	Ala	Gly	Gly
			20					25					30		

Asp	Ser	Glu	Gly	Arg	Val	Val	Asn	Ala	Pro	Leu	Ile	Pro	Gly	Ile	Phe
		35					40					45			

Phe	Arg	Pro	Glu	Ala	Val	Gly	Arg	Gly	Trp	Leu	Cys	Gly	Ser	Trp	Ala
	50					55					60				

Gln	Ala	Gly	Leu	Gln	Asn	His	Pro	Leu	Trp	Gly	Asp	Asp	Gly	Gly	Gln
65					70					75					80

Phe	Gln	Gly	Pro	Pro	Ala	Ile	His	Trp	Ala	Val	Trp	Leu	Arg	Leu	Ser
				85					90					95	

Ala	Val	Ala	Thr	Glu	Ala	Leu	Ser	Gln	Ala	Thr	Asp	Ala	Lys	Asp	Gly
			100					105					110		

Gln	Asp	Asp	Gln	Glu	Asp	Asp	Asp	Glu	Asp	Pro	His	Gly	Ala	Arg	Glu
	115						120					125			

Glu	Leu	Val	Leu	Leu	Ala	Ala	Ala	Val	Thr	Thr	Ala	Phe	Glu	Ser	Phe
	130					135					140				

Gly Ala Gly Lys Asp Glu Thr Thr Phe Gly Cys Asn Leu Leu Gly Ala  
145 150 155 160

Ser Gln Gln Ala Glu Gln Gln Gly Gly Arg Glu Ala Gly Asp Pro Ser  
165 170 175

Leu Gly His Pro Gly Leu Gly Ala Thr Glu Leu Ser Cys Val Glu Lys  
180 185 190

Ala Gly Leu Arg Pro Leu Pro Leu Pro Asp Ala  
195 200

<210> 245

<211> 13

<212> PRT

<213> Homo sapiens

<400> 245

Ala Arg Ala Ala Arg Gly Lys Ile Glu Ser Asn Leu Ile  
1 5 10

<210> 246

<211> 10

<212> PRT

<213> Homo sapiens

<400> 246

Gly Pro Gln Val Asp Trp Gln Arg Pro Leu  
1 5 10

<210> 247

<211> 77

<212> PRT

<213> Homo sapiens

<400> 247

His Met Leu Trp Asn Arg Arg Lys Leu Arg Cys Cys Phe His Lys Phe  
1 5 10 15

Val Leu Ser Leu Ala Leu Gly Pro Ser Phe Leu Phe Trp Lys Asn Leu  
20 25 30

Ser Glu Lys Arg Asp Leu Ser Ser Val Cys Ser Ala Phe Leu Tyr Lys  
35 40 45

Thr Arg Asn Gly Val Asn Ser Arg Asp Met Glu Val Ile Thr Pro Asp  
50 55 60

Ser Leu Cys Trp Leu Leu Arg Phe Ser Gln Gly Glu Val  
65 70 75

<210> 248

<211> 76

<212> PRT

<213> Homo sapiens

<400> 248

Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly  
1 5 10 15

Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr



		20						25						30					
Cys	Pro	Val	Phe	Asp	Arg	Leu	Phe	Asp	Ile	Phe	Ala	Lys	Ile	Pro	Leu				
		35					40					45							
Val	Glu	Ser	Gln	Ala	Ser	Cys	Ala	Arg	Ile	Gly	Ile	Ala	Ala	Ser	His				
	50					55					60								
Trp	Arg	Leu	Asp	Cys	Ser	Val	Asp	Gly	Met	Gln	Ala								
65					70					75									

&lt;210&gt; 249

&lt;211&gt; 284

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 249

Met	Val	Thr	Arg	Ala	Gly	Ala	Gly	Thr	Ala	Val	Ala	Gly	Ala	Val	Val				
1				5					10					15					
Val	Ala	Leu	Leu	Ser	Ala	Ala	Leu	Ala	Leu	Tyr	Gly	Pro	Pro	Leu	Asp				
			20					25					30						
Ala	Val	Leu	Glu	Arg	Ala	Phe	Ser	Leu	Arg	Lys	Ala	His	Ser	Ile	Lys				
		35					40					45							
Asp	Met	Glu	Asn	Thr	Leu	Gln	Leu	Val	Arg	Asn	Ile	Ile	Pro	Pro	Leu				
	50					55					60								
Ser	Ser	Thr	Lys	His	Lys	Gly	Gln	Asp	Gly	Arg	Ile	Gly	Val	Val	Gly				
	65				70				75						80				
Gly	Cys	Gln	Glu	Tyr	Thr	Gly	Ala	Pro	Tyr	Phe	Ala	Arg	Ile	Ser	Ala				
				85					90					95					
Leu	Lys	Val	Gly	Ala	Asp	Leu	Ser	His	Val	Phe	Cys	Ala	Ser	Ala	Ala				
			100					105					110						
Ala	Pro	Val	Ile	Lys	Ala	Tyr	Ser	Pro	Glu	Leu	Ile	Val	His	Pro	Val				
		115					120					125							
Leu	Asp	Ser	Pro	Asn	Ala	Val	His	Glu	Val	Glu	Lys	Trp	Leu	Pro	Arg				
	130					135					140								
Leu	His	Ala	Leu	Val	Val	Gly	Pro	Gly	Leu	Gly	Arg	Asp	Asp	Ala	Leu				
	145				150					155					160				
Leu	Arg	Asn	Val	Gln	Gly	Ile	Leu	Glu	Val	Ser	Lys	Ala	Arg	Asp	Ile				
				165					170					175					
Pro	Val	Val	Ile	Asp	Ala	Asp	Gly	Leu	Trp	Xaa	Val	Ala	Gln	Gln	Pro				
			180					185						190					
Ala	Leu	Ile	His	Gly	Tyr	Arg	Lys	Ala	Val	Leu	Thr	Pro	Asn	His	Val				
		195					200					205							
Glu	Phe	Ser	Arg	Leu	Tyr	Asp	Ala	Val	Leu	Arg	Gly	Pro	Met	Asp	Ser				
	210					215					220								
Asp	Asp	Ser	His	Gly	Ser	Val	Leu	Arg	Leu	Ser	Gln	Ala	Leu	Gly	Asn				

[illegible]

<400> 251															
Glu	Phe	Gly	Thr	Arg	Leu	Arg	Ala	Val	Ala	Ser	Val	Gly	Ala	Ala	Leu
1				5					10					15	
Ile	Leu	Phe	Pro	Cys	Leu	Leu	Tyr	Gly	Ala	Tyr	Ala	Phe	Leu	Pro	Phe
			20					25					30		
Asp	Val	Pro	Arg	Leu	Pro	Thr	Met	Ser	Ser	Arg	Leu	Ile	Tyr	Thr	Leu
		35					40					45			
Arg	Cys	Gly	Val	Phe	Ala	Thr	Phe	Pro	Ile	Val	Leu	Gly	Ile	Leu	Val
	50					55					60				
Tyr	Gly	Leu	Ser	Leu	Leu	Cys	Phe	Ser	Ala	Leu	Arg	Pro	Phe	Gly	Glu
65					70					75					80
Pro	Arg	Arg	Glu	Val	Glu	Ile	His	Arg	Arg	Tyr	Val	Ala	Gln	Ser	Val
				85					90					95	

Gln Leu Phe Ile Leu Tyr Phe Phe Asn Leu Ala Val Leu Ser Thr Tyr  
 100 105 110  
 Leu Pro Gln Asp Thr Leu Lys Leu Leu Pro Leu Leu Thr Gly Leu Phe  
 115 120 125  
 Ala Val Ser Arg Leu Ile Tyr Trp Leu Thr Phe Ala Val Gly Arg Ser  
 130 135 140  
 Phe Arg Gly Phe Gly Tyr Gly Leu Thr Phe Leu Pro Leu Leu Ser Met  
 145 150 155 160  
 Leu Met Trp Asn Leu Tyr Tyr Met Phe Val Val Glu Pro Glu Arg Met  
 165 170 175  
 Leu Thr Ala Thr Glu Ser Arg Leu Asp Tyr Pro Asp His Ala Arg Ser  
 180 185 190  
 Ala Ser Asp Tyr Arg Pro Arg Pro Trp Gly  
 195 200

<210> 252  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 252  
 Thr Trp Gly His Val His Thr Thr Ala Arg Ala Tyr Cys Val Ser Arg  
 1 5 10 15  
 Trp Leu Val Cys Leu Arg  
 20

<210> 253  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 253  
 Gly Thr Ser Phe Ser Ile Leu Ser Leu Ala Ala Cys Leu Val Val Glu  
 1 5 10 15  
 Ala Val Val Trp Lys Ser Val Thr Lys Asn Arg Thr Ser Tyr  
 20 25 30

<210> 254  
 <211> 241  
 <212> PRT  
 <213> Homo sapiens

<400> 254  
 His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu  
 1 5 10 15  
 Thr Ser Arg Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly  
 20 25 30  
 Cys Pro Leu Ala Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg  
 35 40 45  
 Glu Val Tyr Thr Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr  
 50 55 60

Lys Ala Leu Leu Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val Val  
 65 70 75 80  
 Asn Ile Thr Ile Thr Ile Val Val Ile Thr Lys Ile Leu Arg Pro Ser  
 85 90 95  
 Ile Gly Asp Lys Pro Cys Lys Gln Glu Lys Ser Ser Leu Phe Gln Ile  
 100 105 110  
 Ser Lys Ser Ile Gly Val Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly  
 115 120 125  
 Phe Gly Leu Thr Thr Val Phe Pro Gly Thr Asn Leu Val Phe His Ile  
 130 135 140  
 Ile Phe Ala Ile Leu Asn Val Phe Gln Gly Leu Phe Ile Leu Leu Phe  
 145 150 155 160  
 Gly Cys Leu Trp Asp Leu Lys Val Gln Glu Ala Leu Leu Asn Lys Phe  
 165 170 175  
 Ser Leu Ser Arg Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly  
 180 185 190  
 Ser Ser Thr Pro Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe  
 195 200 205  
 Asn Asn Leu Phe Gly Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu  
 210 215 220  
 Ala Thr Ser Ser Ser Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu  
 225 230 235 240  
 Asn

&lt;210&gt; 255

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 255

His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu  
 1 5 10 15

Thr Ser Arg Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly  
 20 25 30

Cys Pro Leu Ala  
 35

&lt;210&gt; 256

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 256

Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr  
 1 5 10 15

Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu  
 20 25 30

Ala Phe Ala  
35

<210> 257  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 257  
Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile Thr Ile Val  
1 5 10 15  
Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys Pro Cys Lys  
20 25 30  
Gln Glu Lys  
35

<210> 258  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 258  
Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile Gly Val Leu Thr Pro Leu  
1 5 10 15  
Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr Thr Val Phe Pro Gly Thr  
20 25 30  
Asn Leu Val Phe  
35

<210> 259  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 259  
His Ile Ile Phe Ala Ile Leu Asn Val Phe Gln Gly Leu Phe Ile Leu  
1 5 10 15  
Leu Phe Gly Cys Leu Trp Asp Leu Lys Val Gln Glu Ala Leu Leu Asn  
20 25 30  
Lys Phe Ser Leu  
35

<210> 260  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 260  
Ser Arg Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser  
1 5 10 15  
Thr Pro Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn  
20 25 30  
Leu Phe Gly  
35

<210> 261  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 261  
 Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser Ser  
   1                  5                  10                  15  
 Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn  
                   20                  25

<210> 262  
 <211> 237  
 <212> PRT  
 <213> Homo sapiens

<400> 262  
 Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu Thr Ser Arg Ser  
   1                  5                  10                  15  
 Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly Cys Pro Leu Ala  
                   20                  25                  30  
 Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr  
                   35                  40                  45  
 Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu  
                   50                  55                  60  
 Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile  
   65                  70                  75                  80  
 Thr Ile Val Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys  
                   85                  90                  95  
 Pro Cys Lys Gln Glu Lys Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile  
                   100                  105                  110  
 Gly Val Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr  
                   115                  120                  125  
 Thr Val Phe Pro Gly Thr Asn Leu Val Phe His Ile Ile Phe Ala Ile  
   130                  135                  140  
 Leu Asn Val Phe Gln Gly Leu Phe Ile Leu Leu Phe Gly Cys Leu Trp  
   145                  150                  155                  160  
 Asp Leu Lys Val Gln Glu Ala Leu Leu Asn Lys Phe Ser Leu Ser Arg  
                   165                  170                  175  
 Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser Thr Pro  
                   180                  185                  190  
 Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn Leu Phe  
                   195                  200                  205  
 Gly Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser  
   210                  215                  220  
 Ser Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn  
   225                  230                  235

<210> 263  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 263  
 Met Glu His Lys Val Gly Pro Trp Glu His Ser Gly Glu Thr Lys Thr  
   1                  5                  10                  15  
 Pro Ser Glu Ala Gln Glu Trp Cys Glu Asp Pro Asn Ala Leu Ala Asp  
                   20                  25                  30  
 Leu Lys Gln Ala Ala Leu Leu Leu Leu Ala Trp Leu Val Ser Asn Gly  
           35                  40                  45  
 Arg Pro Gln Asp Leu Gly Asp Asp His Asn Ser Asp Gly Tyr Val His  
   50                  55                  60  
 His His Asn Asp Gln Cys Trp Asp Gly Glu Ser Gln Gln Gly Leu Gly  
   65                  70                  75                  80  
 Val Leu Pro Val Glu Pro Thr Asp Ile Leu Pro Arg Ile Asp Phe Pro  
                   85                  90                  95  
 Gly Leu Gly Gly Ser Gln Arg Asp Asp Arg Asp Gly Lys Trp Ala Ala  
           100                  105                  110  
 Ile Ala Lys Thr Glu Gly Asn Gly Phe Leu Ser Gly Pro Ala Cys Phe  
   115                  120                  125  
 Met Gln Asn Glu Asn Gln Ala Ile Glu Gln His Glu Ala Pro Val Ser  
   130                  135                  140  
 Ala Ser Arg Arg Arg Arg  
 145                  150

<210> 264  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 264  
 Thr Arg Pro Leu Trp Ile Pro Arg Ser Leu Val Leu Val Glu  
   1                  5                  10

<210> 265  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 265  
 Glu Lys Val Gly Leu Leu Pro Thr Thr Ile Ala Ile Ile Gln Ile Ile  
   1                  5                  10                  15  
 Ser Lys Asp Ser Val Ser Ala Ile Ser Asp Ser Cys Leu Arg Pro Ser  
           20                  25                  30  
 Glu Arg Gly Phe Gly Arg Leu Leu Lys Gln Arg  
   35                  40

<210> 266  
 <211> 211

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 266

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Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu
 1           5           10           15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro
          20           25           30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln
          35           40           45

Ala Gln Pro Val Leu Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala
 50           55           60

Val Val Pro Ala Ser Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly
 65           70           75           80

Gly Thr Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro
          85           90           95

Gly Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro
          100          105          110

Gly Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg
          115          120          125

Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His
          130          135          140

Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg
          145          150          155          160

Tyr Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly
          165          170          175

Asp Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn
          180          185          190

Pro Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val
          195          200          205

Thr Arg Ala
          210

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&lt;210&gt; 267

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 267

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Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu
 1           5           10           15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro
          20           25           30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro
          35           40

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&lt;210&gt; 268

&lt;211&gt; 40

&lt;212&gt; PRT



<213> Homo sapiens

<400> 268

Ala Gly Thr Ser Val Gln Ala Gln Pro Val Leu Pro Thr Asp Ser Ala  
 1 5 10 15  
 Ser Arg Gly Gly Val Ala Val Val Pro Ala Ser Gly Asp Cys Val Pro  
 20 25 30  
 Ser Pro Cys His Asn Gly Gly Thr  
 35 40

<210> 269

<211> 43

<212> PRT

<213> Homo sapiens

<400> 269

Cys Leu Glu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly Tyr  
 1 5 10 15  
 Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly Trp  
 20 25 30  
 Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe  
 35 40

<210> 270

<211> 43

<212> PRT

<213> Homo sapiens

<400> 270

Ser Thr Arg Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr  
 1 5 10 15  
 Gly Ala His Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile  
 20 25 30  
 Asn Asn Arg Tyr Arg Glu Tyr Gln Trp Ile Gly  
 35 40

<210> 271

<211> 43

<212> PRT

<213> Homo sapiens

<400> 271

Leu Asn Asp Arg Thr Ile Glu Gly Asp Phe Leu Trp Ser Asp Gly Val  
 1 5 10 15  
 Pro Leu Leu Tyr Glu Asn Trp Asn Pro Gly Gln Pro Asp Ser Tyr Phe  
 20 25 30  
 Leu Ser Gly Glu Asn Cys Val Val Thr Arg Ala  
 35 40

<210> 272

<211> 483

<212> PRT

<213> Homo sapiens

&lt;400&gt; 272

Met	Ala	Val	Cys	Ala	Thr	Pro	Ser	Ser	His	Pro	Ala	Ser	Ala	Val	Val
1				5					10					15	
Gly	Ala	Cys	Leu	Val	Ser	Arg	Leu	Ser	Ser	Ser	Ser	Pro	Thr	Arg	Leu
			20					25					30		
Ala	Ser	Pro	Ile	Ser	Thr	Ala	Ala	Ser	Thr	Ser	Thr	Ala	Ser	Glu	Thr
		35					40					45			
Arg	Pro	Ser	Leu	Ser	Ala	Ile	Pro	Glu	Ala	Ser	Asn	Pro	Ala	Ser	Asn
	50					55					60				
Pro	Ala	Ser	Asp	Gly	Leu	Glu	Ala	Ile	Val	Thr	Val	Thr	Glu	Thr	Leu
65					70					75					80
Glu	Glu	Leu	Gln	Leu	Pro	Gln	Glu	Ala	Thr	Glu	Ser	Glu	Ser	Arg	Gly
				85					90					95	
Ala	Ile	Tyr	Ser	Ile	Pro	Ile	Met	Glu	Asp	Gly	Gly	Gly	Gly	Ser	Ser
			100					105						110	
Thr	Pro	Glu	Asp	Pro	Ala	Glu	Ala	Pro	Arg	Thr	Leu	Leu	Glu	Phe	Glu
		115					120					125			
Thr	Gln	Ser	Met	Val	Pro	Pro	Thr	Gly	Phe	Ser	Glu	Glu	Glu	Gly	Lys
	130					135					140				
Ala	Leu	Glu	Glu	Glu	Glu	Lys	Tyr	Glu	Asp	Glu	Glu	Glu	Lys	Glu	Glu
145					150					155					160
Glu	Glu	Glu	Glu	Glu	Glu	Val	Glu	Asp	Glu	Ala	Leu	Trp	Ala	Trp	Pro
				165					170					175	
Ser	Glu	Leu	Ser	Ser	Pro	Gly	Pro	Glu	Ala	Ser	Leu	Pro	Thr	Glu	Pro
			180					185					190		
Ala	Ala	Gln	Glu	Glu	Ser	Leu	Ser	Gln	Ala	Pro	Ala	Arg	Ala	Val	Leu
		195					200					205			
Gln	Pro	Gly	Ala	Ser	Pro	Leu	Pro	Asp	Gly	Glu	Ser	Glu	Ala	Ser	Arg
	210					215					220				
Pro	Pro	Arg	Val	His	Gly	Pro	Pro	Thr	Glu	Thr	Leu	Pro	Thr	Pro	Arg
225					230					235					240
Glu	Arg	Asn	Leu	Ala	Ser	Pro	Ser	Pro	Ser	Thr	Leu	Val	Glu	Ala	Arg
				245					250					255	
Glu	Val	Gly	Glu	Ala	Thr	Gly	Gly	Pro	Glu	Leu	Ser	Gly	Val	Pro	Arg
			260					265					270		
Gly	Glu	Ser	Glu	Glu	Thr	Gly	Ser	Ser	Glu	Gly	Ala	Pro	Ser	Leu	Leu
		275					280					285			
Pro	Ala	Thr	Arg	Ala	Pro	Glu	Gly	Thr	Arg	Glu	Leu	Glu	Ala	Pro	Ser
	290					295					300				
Glu	Asp	Asn	Ser	Gly	Arg	Thr	Ala	Pro	Ala	Gly	Thr	Ser	Val	Gln	Ala
305					310					315					320
Gln	Pro	Val	Leu	Pro	Thr	Asp	Ser	Ala	Ser	Arg	Gly	Gly	Val	Ala	Val
				325					330					335	
Val	Pro	Ala	Ser	Gly	Asp	Cys	Val	Pro	Ser	Pro	Cys	His	Asn	Gly	Gly
			340					345					350		

Thr Cys Leu Glu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly  
 355 360 365  
 Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly  
 370 375 380  
 Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg Arg  
 385 390 395 400  
 Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His Leu  
 405 410 415  
 Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg Tyr  
 420 425 430  
 Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly Asp  
 435 440 445  
 Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn Pro  
 450 455 460  
 Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val Thr  
 465 470 475 480  
 Arg Val Ala

<210> 273  
 <211> 427  
 <212> PRT  
 <213> Homo sapiens

<400> 273  
 Ser Ala Ile Pro Glu Ala Ser Asn Pro Ala Ser Asn Pro Ala Ser Asp  
 1 5 10 15  
 Gly Leu Glu Ala Ile Val Thr Val Thr Glu Thr Leu Glu Glu Leu Gln  
 20 25 30  
 Leu Pro Gln Glu Ala Thr Glu Ser Glu Ser Arg Gly Ala Ile Tyr Ser  
 35 40 45  
 Ile Pro Ile Met Glu Asp Gly Gly Gly Gly Ser Ser Thr Pro Glu Asp  
 50 55 60  
 Pro Ala Glu Ala Pro Arg Thr Leu Leu Glu Phe Glu Thr Gln Ser Met  
 65 70 75 80  
 Val Pro Pro Thr Gly Phe Ser Glu Glu Glu Gly Lys Ala Leu Glu Glu  
 85 90 95  
 Glu Glu Lys Tyr Glu Asp Glu Glu Glu Lys Glu Glu Glu Glu Glu  
 100 105 110  
 Glu Glu Val Glu Asp Glu Ala Leu Trp Ala Trp Pro Ser Glu Leu Ser  
 115 120 125  
 Ser Pro Gly Pro Glu Ala Ser Leu Pro Thr Glu Pro Ala Ala Gln Glu  
 130 135 140  
 Glu Ser Leu Ser Gln Ala Pro Ala Arg Ala Val Leu Gln Pro Gly Ala  
 145 150 155 160  
 Ser Pro Leu Pro Asp Gly Glu Ser Glu Ala Ser Arg Pro Pro Arg Val

165								170					175				
His	Gly	Pro	Pro	Thr	Glu	Thr	Leu	Pro	Thr	Pro	Arg	Glu	Arg	Asn	Leu		
			180					185					190				
Ala	Ser	Pro	Ser	Pro	Ser	Thr	Leu	Val	Glu	Ala	Arg	Glu	Val	Gly	Glu		
		195					200					205					
Ala	Thr	Gly	Gly	Pro	Glu	Leu	Ser	Gly	Val	Pro	Arg	Gly	Glu	Ser	Glu		
	210					215					220						
Glu	Thr	Gly	Ser	Ser	Glu	Gly	Ala	Pro	Ser	Leu	Leu	Pro	Ala	Thr	Arg		
225					230					235					240		
Ala	Pro	Glu	Gly	Thr	Arg	Glu	Leu	Glu	Ala	Pro	Ser	Glu	Asp	Asn	Ser		
				245					250					255			
Gly	Arg	Thr	Ala	Pro	Ala	Gly	Thr	Ser	Val	Gln	Ala	Gln	Pro	Val	Leu		
			260					265					270				
Pro	Thr	Asp	Ser	Ala	Ser	Arg	Gly	Gly	Val	Ala	Val	Val	Pro	Ala	Ser		
		275					280					285					
Gly	Asp	Cys	Val	Pro	Ser	Pro	Cys	His	Asn	Gly	Gly	Thr	Cys	Leu	Glu		
	290					295					300						
Glu	Glu	Glu	Gly	Val	Arg	Cys	Leu	Cys	Leu	Pro	Gly	Tyr	Gly	Gly	Asp		
305					310					315					320		
Leu	Cys	Asp	Val	Gly	Leu	Arg	Phe	Cys	Asn	Pro	Gly	Trp	Asp	Ala	Phe		
				325					330					335			
Gln	Gly	Ala	Cys	Tyr	Lys	His	Phe	Ser	Thr	Arg	Arg	Ser	Trp	Glu	Glu		
			340					345					350				
Ala	Glu	Thr	Gln	Cys	Arg	Met	Tyr	Gly	Ala	His	Leu	Ala	Ser	Ile	Ser		
		355					360					365					
Thr	Pro	Glu	Glu	Gln	Asp	Phe	Ile	Asn	Asn	Arg	Tyr	Arg	Glu	Tyr	Gln		
	370					375					380						
Trp	Ile	Gly	Leu	Asn	Asp	Arg	Thr	Ile	Glu	Gly	Asp	Phe	Leu	Trp	Ser		
385					390					395					400		
Asp	Gly	Val	Pro	Leu	Leu	Tyr	Glu	Asn	Trp	Asn	Pro	Gly	Gln	Pro	Asp		
				405					410					415			
Ser	Tyr	Phe	Leu	Ser	Gly	Glu	Asn	Cys	Val	Val							
			420					425									

&lt;210&gt; 274

&lt;211&gt; 196

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 274

Met	Ala	Gln	Leu	Phe	Leu	Pro	Leu	Leu	Ala	Ala	Leu	Val	Leu	Ala	Gln	
1				5					10					15		

Ala	Pro	Ala	Ala	Leu	Ala	Asp	Val	Leu	Glu	Gly	Asp	Ser	Ser	Glu	Asp	
			20					25					30			

Arg	Ala	Phe	Arg	Val	Arg	Ile	Ala	Gly	Asp	Ala	Pro	Leu	Gln	Gly	Val	
		35					40					45				

Leu Gly Gly Ala Leu Thr Ile Pro Cys His Val His Tyr Leu Arg Pro  
 50 55 60  
 Pro Pro Ser Arg Arg Ala Val Leu Gly Ser Pro Arg Val Lys Trp Thr  
 65 70 75 80  
 Phe Leu Ser Arg Gly Arg Glu Ala Glu Val Leu Val Ala Arg Gly Val  
 85 90 95  
 Arg Val Lys Val Asn Glu Ala Tyr Arg Phe Arg Val Ala Leu Pro Ala  
 100 105 110  
 Tyr Pro Ala Ser Leu Thr Asp Val Ser Leu Ala Leu Ser Glu Leu Arg  
 115 120 125  
 Pro Asn Asp Ser Gly Ile Tyr Arg Cys Glu Val Gln His Gly Ile Asp  
 130 135 140  
 Asp Ser Ser Asp Ala Val Glu Val Lys Val Lys Gly Ile Pro Ser Arg  
 145 150 155 160  
 Pro His Glu Arg Pro Val Thr Glu Thr Trp Met Ala Ser Pro Gly Ser  
 165 170 175  
 Gly Thr Met Val Trp Trp Thr Arg Met Thr Ser Met Met Cys Thr Val  
 180 185 190  
 Met Leu Lys Thr  
 195

<210> 275  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Met Val Gly His Ala Trp Arg Arg Arg Lys Gly Ser Ala Ala Tyr Val  
 1 5 10 15  
 Cys Leu Ala Met Gly Gly Thr Cys Ala Met Leu Ala Ser Ala Ser Ala  
 20 25 30  
 Thr Pro Ala Gly Thr Pro Ser Arg Ala Pro Ala Thr Ser Thr Phe Pro  
 35 40 45  
 His Glu Gly Ala Gly Arg Arg Gln Arg Pro Ser Ala Gly Cys Thr Ala  
 50 55 60  
 Arg Ile Trp Pro Ala Ser Ala His Pro Arg Asn Arg Thr Ser Ser Thr  
 65 70 75 80  
 Thr Gly Thr Gly Ser Thr Ser Gly Ser Asp Ser Thr Thr Gly Pro Ser  
 85 90 95  
 Lys Ala Thr Ser Cys Gly Arg Met Ala Ser Pro Cys Ser Met Arg Thr  
 100 105 110  
 Gly Thr Leu Gly Ser Leu Thr Ala Thr Ser Cys Leu Glu Arg Thr Ala  
 115 120 125  
 Trp Ser Leu Val Trp His Asp Gln Gly Gln Trp Ser Asp Val Pro Cys  
 130 135 140  
 Asn Tyr His Leu Ser Tyr Thr Cys Lys Met Gly Leu Val Ser Cys Gly  
 145 150 155 160

Pro	Pro	Pro	Glu	Leu 165	Pro	Leu	Ala	Gln	Val 170	Phe	Gly	Arg	Pro	Arg 175	Leu
Arg	Tyr	Glu	Val 180	Asp	Thr	Val	Leu	Arg 185	Tyr	Arg	Cys	Arg	Glu 190	Gly	Leu
Ala	Gln	Arg 195	Asn	Leu	Pro	Leu	Ile 200	Arg	Cys	Gln	Glu	Asn 205	Gly	Arg	Trp
Gly	Gly 210	Pro	Pro	Asp	Phe	Leu 215	Cys	Cys	Pro	Glu	Asp 220	Leu	Pro	Glu	Phe
Leu 225	Gln	Pro	Arg	Gly	Arg 230	Asp	Pro	Glu	Gly	Thr 235	Ser	Arg	Glu	Val	Tyr 240
Leu	Gly	Thr	Phe	Gly 245	Arg	Arg									

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<210> 276
<211> 128
<212> PRT
<213> Homo sapiens
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<400> 276															
Ser 1	Tyr	Lys	Asp	Ser 5	Leu	Val	Pro	Arg	Gln 10	Glu	Gly	Gly	Leu	Phe 15	Trp
Glu	Arg	Lys	Gly 20	Leu	Phe	Ser	Cys	Phe 25	Leu	Ser	Cys	Lys	Val 30	Ser	Ser
Ser	Gln	Ser 35	Gln	Phe	Ser	Leu	Cys 40	Pro	Gly	Met	Lys	Lys 45	Asp	Ser	Leu
Glu	Val 50	Arg	Ser	Lys	Met	Val 55	Cys	Leu	Gly	Gln	Ile 60	Ser	Phe	Thr	Val
Leu 65	Ala	Val	Ile	Leu	Gln 70	Trp	Gln	Phe	Gln	Asn 75	Phe	Gly	Gln	Arg	Pro 80
Ser	Ile	Phe	Leu	Arg 85	Pro	His	Phe	Leu	Phe 90	Met	Cys	Val	Val	Ile 95	Leu
Leu	Gln	Asn	Phe 100	Leu	Leu	Ser	Ser	Ala 105	Lys	Thr	Gly	Leu	Leu 110	Ser	His
Glu	Trp	Glu 115	Arg	Leu	Gly	Leu	Gln 120	Ala	Arg	Thr	Arg	Val 125	Arg	Lys	Thr

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<210> 277
<211> 86
<212> PRT
<213> Homo sapiens
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<400> 277  
Met Lys Lys Asp Ser Leu Glu Val Arg Ser Lys Met Val Cys Leu Gly  
1 5 10 15  
Gln Ile Ser Phe Thr Val Leu Ala Val Ile Leu Gln Trp Gln Phe Gln  
20 25 30

Asn Phe Gly Gln Arg Pro Ser Ile Phe Leu Arg Pro His Phe Leu Phe  
                   35                                  40                                  45  
 Met Cys Val Val Ile Leu Leu Gln Asn Phe Leu Leu Ser Ser Ala Lys  
           50                                  55                                  60  
 Thr Gly Leu Leu Ser His Glu Trp Glu Arg Leu Gly Leu Gln Ala Arg  
       65                                  70                                  75                                  80  
 Thr Arg Val Arg Lys Thr  
                                   85

<210> 278  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 278  
 Gly Thr Arg Ser Ser His Val Pro Ile Ser Asp Ser Lys Ser Ile Gln  
       1                                  5                                  10                                  15  
 Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn Cys Tyr His Glu  
                   20                                  25                                  30  
 Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile  
                   35                                  40                                  45  
 Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile Arg  
       50                                  55                                  60  
 Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu Pro Ser Thr Ser  
       65                                  70                                  75                                  80  
 Trp

<210> 279  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 279  
 Val Pro Ile Ser Asp Ser Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly  
       1                                  5                                  10                                  15  
 Leu Leu Lys Thr Tyr Asn Cys Tyr His  
                   20                                  25

<210> 280  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 280  
 Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile Ile Glu Gly  
       1                                  5                                  10                                  15  
 Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile  
                   20                                  25

<210> 281  
 <211> 344

<212> PRT

<213> Homo sapiens

<400> 281

Gly 1	Thr	Arg	Ser	Ser 5	His	Val	Pro	Ile	Ser 10	Asp	Ser	Lys	Ser	Ile 15	Gln
Lys	Ser	Glu	Leu 20	Leu	Gly	Leu	Leu	Lys 25	Thr	Tyr	Asn	Cys	Tyr 30	His	Glu
Gly	Lys	Ser 35	Phe	Gln	Leu	Arg	His 40	Arg	Glu	Glu	Glu	Gly 45	Thr	Leu	Ile
Ile	Glu 50	Gly	Leu	Leu	Asn	Ile 55	Ala	Trp	Gly	Leu	Arg 60	Arg	Pro	Ile	Arg
Leu 65	Gln	Met	Gln	Asp	Asp 70	Arg	Glu	Gln	Val	His 75	Leu	Pro	Ser	Thr	Ser 80
Trp	Met	Pro	Arg	Arg 85	Pro	Ser	Cys	Pro	Leu 90	Gly	Cys	Trp	Ser	Leu 95	Leu
Leu	Gly	Leu	Ser 100	Ser	Leu	Ser	Leu	Pro 105	Ala	Ala	Ile	Ser	Ala 110	Leu	Gln
Leu	Ser	Val 115	Phe	Arg	Lys	Glu	Pro 120	Ser	Pro	Gln	Asn	Gly 125	Asn	Ile	Thr
Ala	Gln 130	Gly	Pro	Ser	Ile	Gln 135	Pro	Val	His	Lys	Ala 140	Glu	Ser	Ser	Thr
Asp 145	Ser	Ser	Gly	Pro	Leu 150	Glu	Glu	Ala	Glu	Glu 155	Ala	Pro	Gln	Leu	Met 160
Arg	Thr	Lys	Ser	Asp 165	Ala	Ser	Cys	Met	Ser 170	Gln	Arg	Arg	Pro	Lys 175	Cys
Arg	Ala	Pro	Gly 180	Glu	Ala	Gln	Arg	Ile 185	Arg	Arg	His	Arg	Phe 190	Ser	Ile
Asn	Gly	His 195	Phe	Tyr	Asn	His	Lys 200	Thr	Ser	Val	Phe	Thr 205	Pro	Ala	Tyr
Gly	Ser 210	Val	Thr	Asn	Val	Arg 215	Val	Asn	Ser	Thr	Met 220	Thr	Thr	Leu	Gln
Val 225	Leu	Thr	Leu	Leu	Leu 230	Asn	Lys	Phe	Arg	Val 235	Glu	Asp	Gly	Pro	Ser 240
Glu	Phe	Ala	Leu	Tyr 245	Ile	Val	His	Glu	Ser 250	Gly	Glu	Arg	Thr	Lys 255	Leu
Lys	Asp	Cys	Glu 260	Tyr	Pro	Leu	Ile	Ser 265	Arg	Ile	Leu	His	Gly 270	Pro	Cys
Glu	Lys	Ile 275	Ala	Arg	Ile	Phe	Leu 280	Met	Glu	Ala	Asp	Leu 285	Gly	Val	Glu
Val 290	Pro	His	Glu	Val	Ala	Gln 295	Tyr	Ile	Lys	Phe	Glu 300	Met	Pro	Val	Leu
Asp 305	Ser	Phe	Val	Glu	Lys 310	Leu	Lys	Glu	Glu	Glu 315	Glu	Arg	Glu	Ile	Ile 320
Lys	Leu	Thr	Met	Lys 325	Phe	Gln	Ala	Leu	Arg 330	Leu	Thr	Met	Leu	Gln 335	Arg



Leu Glu Gln Leu Val Glu Ala Lys  
340

<210> 282  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 282  
Gly Cys Trp Ser Leu Leu Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala  
1 5 10 15  
Ala Ile Ser Ala Leu Gln Leu Ser Val Phe Arg  
20 25

<210> 283  
<211> 243  
<212> PRT  
<213> Homo sapiens

<400> 283  
Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro  
1 5 10 15  
Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly  
20 25 30  
Val Val Ala Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro  
35 40 45  
Ala Thr Thr Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg  
50 55 60  
Cys Gly Leu Gln Trp Arg Lys Cys Trp Arg His Ser His Gly Gln Ala  
65 70 75 80  
Val Pro His Leu Gln Pro His His Gln Ala Arg Arg Gln Leu Ala Gln  
85 90 95  
Cys Ser Arg Arg Leu Tyr Leu Leu Asp Gln Lys His Ser His Val Ala  
100 105 110  
Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro Trp Ala Phe Arg Asn  
115 120 125  
Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly Glu Gly Arg Gly His  
130 135 140  
Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly Gly Met  
145 150 155 160  
Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp Gln Arg  
165 170 175  
Leu Gln Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val  
180 185 190  
Gly Lys Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu  
195 200 205  
Gly Ser Ser Arg Leu His Pro Phe Pro Val His Leu Cys Pro Val Leu  
210 215 220

Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val  
 225 230 235 240

Leu Pro Ser

<210> 284  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<400> 284  
 Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr  
 1 5 10 15  
 Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser  
 20 25 30  
 Trp His Ser Ala His Ala Ala Phe Ile Tyr Trp Thr Arg Asn Thr His  
 35 40 45  
 Met Ser Leu Pro Glu Glu Arg Gly Thr Ala Arg Leu Ala His Gly Pro  
 50 55 60  
 Ser Gly Ile Phe Ile His Gly Pro Ala Cys Thr Ala Arg Ala Arg Ala  
 65 70 75 80  
 Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro Ala Ala Arg Pro Val Leu  
 85 90 95  
 Gly Ala Cys Trp Asp Gln Pro His Pro Gly Pro Asn Ala Cys Val Trp  
 100 105 110  
 Thr Ser Gly Cys Ser Leu Leu Ala Pro Pro Pro Arg Glu Thr Leu Arg  
 115 120 125  
 Leu Arg Ser Ala Ser Arg Gly Ser Pro Thr His Arg Ala Ile Pro Cys  
 130 135 140  
 Leu Thr Trp Ala Leu Pro Ala Cys Ile Pro Ser Leu Ser Thr Phe Val  
 145 150 155 160  
 Gln Cys

<210> 285  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 285  
 Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro  
 1 5 10 15  
 Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly  
 20 25 30  
 Val Val Ala  
 35

<210> 286  
 <211> 36  
 <212> PRT

<213> Homo sapiens

<400> 286

Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro Ala Thr Thr  
 1 5 10 15  
 Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg Cys Gly Leu  
 20 25 30  
 Gln Trp Arg Lys  
 35

<210> 287

<211> 36

<212> PRT

<213> Homo sapiens

<400> 287

Cys Trp Arg His Ser His Gly Gln Ala Val Pro His Leu Gln Pro His  
 1 5 10 15  
 His Gln Ala Arg Arg Gln Leu Ala Gln Cys Ser Arg Arg Leu Tyr Leu  
 20 25 30  
 Leu Asp Gln Lys  
 35

<210> 288

<211> 35

<212> PRT

<213> Homo sapiens

<400> 288

His Ser His Val Ala Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro  
 1 5 10 15  
 Trp Ala Phe Arg Asn Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly  
 20 25 30  
 Glu Gly Arg  
 35

<210> 289

<211> 36

<212> PRT

<213> Homo sapiens

<400> 289

Gly His Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly  
 1 5 10 15  
 Gly Met Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp  
 20 25 30  
 Gln Arg Leu Gln  
 35

<210> 290

<211> 35

<212> PRT

<213> Homo sapiens

&lt;400&gt; 290

Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val Gly Lys  
 1 5 10 15

Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu Gly Ser  
 20 25 30

Ser Arg Leu  
 35

&lt;210&gt; 291

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

His Pro Phe Pro Val His Leu Cys Pro Val Leu Asp Ser Pro His Pro  
 1 5 10 15

Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val Leu Pro Ser  
 20 25 30

&lt;210&gt; 292

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 292

Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr  
 1 5 10 15

Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser  
 20 25 30

Trp His Ser Ala His Ala  
 35

&lt;210&gt; 293

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 293

Ala Phe Ile Tyr Trp Thr Arg Asn Thr His Met Ser Leu Pro Glu Glu  
 1 5 10 15

Arg Gly Thr Ala Arg Leu Ala His Gly Pro Ser Gly Ile Phe Ile His  
 20 25 30

Gly Pro Ala Cys  
 35

&lt;210&gt; 294

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 294

Thr Ala Arg Ala Arg Ala Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro  
 1 5 10 15

Ala Ala Arg Pro Val Leu Gly Ala Cys Trp Asp Gln Pro His Pro Gly

20

25

30

Pro Asn

&lt;210&gt; 295

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

Ala	Cys	Val	Trp	Thr	Ser	Gly	Cys	Ser	Leu	Leu	Ala	Pro	Pro	Pro	Arg
1				5					10					15	

Glu	Thr	Leu	Arg	Leu	Arg	Ser	Ala	Ser	Arg	Gly	Ser	Pro	Thr	His	Arg
			20					25					30		

Ala	Ile	Pro	Cys	Leu	Thr	Trp	Ala	Leu	Pro	Ala	Cys	Ile	Pro	Ser	Leu
		35					40					45			

Ser	Thr	Phe	Val	Gln	Cys
					50

&lt;210&gt; 296

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (157)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 296

Met	Met	Asn	Ser	Arg	Cys	Gly	Leu	Gln	Trp	Arg	Lys	Cys	Trp	Arg	His
1				5					10					15	

Ser	His	Gly	Gln	Ala	Val	Pro	His	Leu	Gln	Pro	His	His	Gln	Ala	Arg
			20					25					30		

Arg	Gln	Leu	Ala	Gln	Cys	Ser	Arg	Arg	Leu	Tyr	Leu	Leu	Asp	Gln	Lys
		35					40					45			

His	Ser	His	Val	Ala	Ser	Arg	Gly	Thr	Gly	Asp	Ser	Gln	Ala	Arg	Pro
	50					55					60				

Trp	Ala	Phe	Arg	Asn	Ile	Tyr	Thr	Trp	Pro	Ser	Leu	His	Cys	Pro	Gly
65					70					75					80

Glu	Gly	Arg	Gly	His	Trp	Glu	Gln	Gly	Leu	Cys	Pro	Cys	Cys	Pro	Ser
				85					90					95	

Cys	Ala	Gly	Gly	Met	Leu	Gly	Pro	Ala	Ala	Pro	Arg	Pro	Gln	Cys	Leu
			100					105					110		

Cys	Val	Asp	Gln	Arg	Leu	Gln	Pro	Ser	Ser	Pro	Ser	Ser	Pro	Arg	Asp
		115					120					125			

Ser	Gln	Ala	Glu	Val	Gly	Lys	Pro	Trp	Leu	Pro	His	Thr	Pro	Cys	Asn
						135					140				

Thr	Leu	Ser	Asp	Leu	Gly	Ser	Ser	Arg	Leu	His	Pro	Xaa	Pro	Val	His
145					150					155					160

Leu Cys Pro Val Leu Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys  
                   165                  170                  175

Gly Arg Ser Val Val Leu Pro Ser  
                   180

<210> 297  
 <211> 278  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (183)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 297  
 Ile Arg Gln Ser Leu Gly Gly Glu Ser Ser Ile Met Ser Glu Ile Arg  
   1                  5                  10                  15  
 Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly Thr Cys Cys Leu Trp  
                   20                  25                  30  
 Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe Cys Lys Gln Ala Thr  
                   35                  40                  45  
 Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala Val Ser Thr Val Val  
   50                  55                  60  
 Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp Phe Asp Val Thr Ser  
   65                  70                  75                  80  
 Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile Ser Val Ser Leu Ala  
                   85                  90                  95  
 Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr Arg Glu Leu Leu Ser  
                   100                  105                  110  
 Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val Lys Ser Val Ile Phe  
                   115                  120                  125  
 Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile Leu Glu Lys Cys Gly  
   130                  135                  140  
 Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser Val Gly Glu Gly Thr  
   145                  150                  155                  160  
 Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys Val Glu Met Phe Phe  
                   165                  170                  175  
 Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr Lys Val Tyr Ala Asp  
                   180                  185                  190  
 Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro Met Lys Ser Ile Ser  
                   195                  200                  205  
 Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp Ile Val Gln Asp Ala  
   210                  215                  220  
 Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr Thr Gln Gln Ser Thr

225                      230                      235                      240  
 Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala His Gly Leu Ser Arg  
                                  245                      250                      255  
 Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu Lys Thr Leu Leu Leu  
                                  260                      265                      270  
 Ser Ser Asp Asp Glu Phe  
                                  275

<210> 298  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 298  
 Pro His Arg Pro Pro Thr Pro Gln Ser Asn Phe Ser Ser His Pro Ser  
   1                                 5                                 10                                 15  
 Ser Gln Ala Leu Thr Ile Leu Lys Arg Leu Val Gly Thr Leu Leu Ser  
                                  20                                 25                                 30  
 Ala Thr Gly Lys Leu Val Arg Ala Arg Xaa Arg Ala Trp Gly  
                                  35                                 40                                 45

<210> 299  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 299  
 Gly Val Met Arg Leu Arg Thr Arg Gln Lys Ser Arg Arg Gln Arg Lys  
   1                                 5                                 10                                 15  
 Glu Lys Met Ser Arg Arg Lys Ser Lys Arg Lys Met Lys Arg Lys Arg  
                                  20                                 25                                 30  
 Arg Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln Pro Met Arg Leu Ser  
                                  35                                 40                                 45  
 Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln Val Leu Thr Gln Ser  
                                  50                                 55                                 60  
 Trp Val Leu Ser Ser Arg Arg Gln Leu Leu Val Val Arg Ala Gly Pro  
   65                                 70                                 75                                 80  
 His Pro Pro Trp Pro Leu Phe Asp Leu Pro His Ser Val Thr Pro Gln  
                                  85                                 90                                 95  
 Ala Ser His Thr Ser Val  
                                  100

<210> 300  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 300

Met Lys Arg Lys Arg Arg Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln  
 1 5 10 15

Pro Met Arg Leu Ser Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln  
 20 25 30

Val Leu Thr Gln Ser Trp Val Leu Ser Ser Arg  
 35 40

&lt;210&gt; 301

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 301

Arg Gln Leu Leu Val Val Arg Ala Gly Pro His Pro Pro Trp Pro Leu  
 1 5 10 15

Phe Asp Leu Pro His Ser Val Thr Pro Gln Ala Ser His Thr Ser Val  
 20 25 30

&lt;210&gt; 302

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

His His Cys Pro Ala Leu Gln Pro Gly Thr His Thr His Thr His Thr  
 1 5 10 15

His Thr His Thr His Thr Arg Arg Gly Met Cys Leu Val Gln Ile Tyr  
 20 25 30

Ile Lys Leu Thr His Arg Gln Ile Pro Cys Leu Cys Leu Leu Gly Pro  
 35 40 45

Asp Ser Ala Val  
 50

&lt;210&gt; 303

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

His Glu Ile Leu Gln Pro Ala Val  
 1 5

&lt;210&gt; 304

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 304

Asn Ser Arg Val Asp Pro Arg Val Arg Asp Gly Leu Met Tyr Gln Lys  
 1 5 10 15

Phe Arg Asn Gln Phe Leu Ser Phe Ser Met Tyr Gln Ser Phe Val Gln



20 25 30  
Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly Cys Leu Tyr Arg Leu Arg Ala  
35 40 45

Leu Gly Glu Arg His Thr  
50

<210> 305  
<211> 116  
<212> PRT  
<213> Homo sapiens

<400> 305  
Met Tyr Gln Ser Phe Val Gln Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly  
1 5 10 15  
Cys Leu Tyr Arg Leu Arg Ala Leu Gly Glu Arg His Thr Met Asp Leu  
20 25 30  
Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu Thr Phe Leu  
35 40 45  
Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe Asn Ala Leu  
50 55 60  
Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu Trp Gln Val  
65 70 75 80  
Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly Asn Phe Phe  
85 90 95  
Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln Arg His Gly  
100 105 110  
Ser Lys Lys Asp  
115

<210> 306  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 306  
Ile Leu Met Pro Phe Cys Gly Leu His  
1 5

<210> 307  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 307  
Met Pro Phe Cys Gly Leu His Met Ala Ser Pro Ser Ile Ile Leu Leu  
1 5 10 15  
Leu Ile Phe Phe Phe Phe Phe Phe Phe Ser Val Cys Ser Val Ser Gln  
20 25 30  
Tyr Met Phe Glu Asn Glu Cys Glu Ser Met Ser Arg Arg Arg Gly Arg  
35 40 45  
Gly Leu Gly Arg Ser Arg Leu Lys Val Glu Gln Gly Pro Asp Ala Asp

50                      55                      60  
 Leu His Pro Arg Thr Leu Gly Ser  
 65                      70  
  
 <210> 308  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 308  
 Leu Pro Leu Val Leu Pro Pro Thr Pro Pro Pro Trp Leu Pro Ser  
 1                      5                      10                      15  
 Leu  
  
 <210> 309  
 <211> 220  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 309  
 Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala  
 1                      5                      10                      15  
 Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp  
                     20                      25                      30  
 Thr Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly  
                     35                      40                      45  
 Gln Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu  
                     50                      55                      60  
 Ile Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe  
 65                      70                      75                      80  
 Gln Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala  
                     85                      90                      95  
 Phe Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr  
                     100                      105                      110  
 Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser  
                     115                      120                      125  
 Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe  
 130                      135                      140  
 Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu  
 145                      150                      155                      160  
 Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr  
                     165                      170                      175  
 Glu Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro  
                     180                      185                      190  
 Thr Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr  
                     195                      200                      205  
 His Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile  
                     210                      215                      220

<210> 310  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 310  
 Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala  
   1                  5                  10                  15  
 Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp  
                   20                  25                  30  
 Thr Met Ser Pro Ser  
                   35

<210> 311  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu Leu Glu Gln  
   1                  5                  10                  15  
 Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr Gly Cys Thr  
                   20                  25                  30  
 Asn Ala

<210> 312  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val Asp His Ala Arg Ser  
   1                  5                  10                  15  
 Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro Ala Gly Leu Leu Phe  
                   20                  25                  30  
 Val Cys Leu His Cys  
                   35

<210> 313  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Ala Leu Ser Tyr Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala  
   1                  5                  10                  15  
 Tyr Leu Arg Ser Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu  
                   20                  25                  30  
 Ser Gly

<210> 314  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Val Phe Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu  
   1                  5                  10                  15  
 Cys Glu Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe  
           20                  25                  30  
 Ser Tyr Glu Phe Gly Ala Val Ser Ser  
           35                  40

<210> 315  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro Gly Arg Ala Cys Lys  
   1                  5                  10                  15  
 Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu Asn Cys Ala Pro Glu  
           20                  25                  30  
 Ser Ile Ala Met Ile  
           35

<210> 316  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<400> 316  
 Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu  
   1                  5                  10                  15  
 Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala  
           20                  25                  30  
 Ser Trp Trp Leu Ala Thr Phe Arg Trp Ile Met Pro Gly Leu Cys Thr  
           35                  40                  45  
 Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala  
           50                  55                  60  
 Cys Thr Val Leu Ser Pro Thr Lys Gly Pro Pro Pro Arg Trp Thr Trp  
   65                  70                  75                  80  
 Leu Trp Pro Ile Cys Glu Val Cys Trp Leu Ser Ser Pro Leu Ser Pro  
           85                  90                  95  
 Trp Ser Ser Val Glu Ser Ser Leu Ser Met Arg Val Leu Ser Cys Asn  
           100                  105                  110  
 Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser Ser Ile Ser Ser Phe  
           115                  120                  125  
 Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln Ser Pro Gln Thr His  
           130                  135                  140  
 Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser Pro Pro

165

145                      150                      155                      160  
Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg Ala Ser  
                                 165                      170                      175

Leu

<210> 317  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 317  
Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu  
1                      5                      10                      15  
Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala  
                                 20                      25                      30

Ser Trp Trp Leu Ala Thr  
                                 35

<210> 318  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 318  
Phe Arg Trp Ile Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp  
1                      5                      10                      15  
Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala Cys Thr Val Leu Ser Pro  
                                 20                      25                      30

Thr

<210> 319  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 319  
Lys Gly Pro Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val  
1                      5                      10                      15  
Cys Trp Leu Ser Ser Pro Leu Ser Pro Trp Ser Ser Val Glu Ser Ser  
                                 20                      25                      30

Leu Ser Met Arg  
                                 35

<210> 320  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 320  
Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser  
1                      5                      10                      15

Ser Ile Ser Ser Phe Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln  
                   20                  25                  30

Ser Pro Gln  
           35

<210> 321

<211> 35

<212> PRT

<213> Homo sapiens

<400> 321

Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser  
   1                  5                  10                  15

Pro Pro Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg  
                   20                  25                  30

Ala Ser Leu  
           35

<210> 322

<211> 218

<212> PRT

<213> Homo sapiens

<400> 322

Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala Leu Leu  
   1                  5                  10                  15

Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp Thr Met  
                   20                  25                  30

Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu  
                   35                  40                  45

Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr  
                   50                  55                  60

Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val  
   65                  70                  75                  80

Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro  
                   85                  90                  95

Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln Gly  
                   100                  105                  110

Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val Leu  
                   115                  120                  125

Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe Val  
                   130                  135                  140

His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp Val  
   145                  150                  155                  160

Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu Phe  
                   165                  170                  175

Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro  
                   180                  185                  190

Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu

195                                      200                                      205  
 Asn Cys Ala Pro Glu Ser Ile Ala Met Ile  
     210                                      215

<210> 323  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 323  
 Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln  
     1                                      5                                      10                                      15  
 Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile  
                                     20                                      25                                      30  
 Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln  
                                     35                                      40                                      45  
 Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe  
                                     50                                      55                                      60  
 Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln  
     65                                      70                                      75                                      80  
 Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val  
                                     85                                      90                                      95  
 Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe  
                                     100                                      105                                      110  
 Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp  
                                     115                                      120                                      125  
 Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu  
     130                                      135                                      140  
 Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr  
     145                                      150                                      155                                      160  
 Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His  
                                     165                                      170                                      175  
 Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile  
                                     180                                      185

<210> 324  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 324  
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile  
     1                                      5                                      10                                      15  
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val  
                                     20                                      25                                      30  
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro  
                                     35                                      40                                      45  
 Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro  
     50                                      55                                      60

Leu Ile Ser  
65

<210> 325  
<211> 135  
<212> PRT  
<213> Homo sapiens

<400> 325  
Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg  
1 5 10 15  
Gly Cys Ser Leu Phe Ala Cys Thr Val Leu Ser Pro Thr Lys Gly Pro  
20 25 30  
Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val Cys Trp Leu  
35 40 45  
Ser Ser Pro Leu Ser Pro Trp Ser Ser Val Glu Ser Ser Leu Ser Met  
50 55 60  
Arg Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val  
65 70 75 80  
Ser Ser Ile Ser Ser Phe Ser Met Ala Pro Ser Ala Thr Ser Leu Gly  
85 90 95  
Gln Ser Pro Gln Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala  
100 105 110  
Gly Pro Ala Ser Pro Pro Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr  
115 120 125  
Val Pro Pro Arg Ala Ser Leu  
130 135

<210> 326  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 326  
Ser Cys His Ser Gly Gln Gln Ser Glu Thr Val Ser Glu Lys Lys  
1 5 10 15

<210> 327  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 327  
Ser Pro Pro Ile Ser Phe Thr Leu Thr Ser Gly Leu Pro Asn Pro  
1 5 10 15

<210> 328  
<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE



<222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 328  
 Gln Phe His Thr Gly Asn Ser Tyr Asp His Asp Tyr Ala Lys Xaa Xaa  
 1 5 10 15  
 Tyr Gly Asn Leu Tyr Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg Tyr Arg  
 20 25 30  
 Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Lys Ile Phe Leu Ser  
 35 40 45  
 Lys Leu Ile Val Cys Phe Leu Ser Thr Trp Leu Pro Phe Val Leu Leu  
 50 55 60  
 Gln Val Ile Ile Val Xaa Leu Lys Val Gln Ile Pro Ala Tyr Ile Glu  
 65 70 75 80  
  
 <210> 329  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 329  
 Ile Pro Ile Arg Phe Val Asn Ile Phe Phe His Ser Ala Gly Cys Leu  
 1 5 10 15  
 Phe Ile Phe Leu Ile  
 20  
  
 <210> 330  
 <211> 655  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 330  
 Tyr Arg Ile Pro Leu Ala Ala Asp Ala Gly Leu Leu Gln Phe Leu Gln  
 1 5 10 15  
 Glu Phe Ser Gln Gln Thr Ile Ser Arg Thr His Glu Ile Lys Lys Gln  
 20 25 30  
 Val Asp Gly Leu Ile Arg Glu Thr Lys Ala Thr Asp Cys Arg Leu His  
 35 40 45

Asn	Val	Phe	Asn	Asp	Phe	Leu	Met	Leu	Ser	Asn	Thr	Gln	Phe	Ile	Glu	50	55	60
Asn	Arg	Val	Tyr	Asp	Glu	Glu	Val	Glu	Glu	Pro	Val	Leu	Lys	Ala	Glu	65	70	75
Ala	Glu	Lys	Thr	Glu	Gln	Glu	Lys	Thr	Arg	Glu	Gln	Lys	Glu	Val	Asp	85	90	95
Leu	Ile	Pro	Lys	Val	Gln	Glu	Ala	Val	Asn	Tyr	Gly	Leu	Gln	Val	Leu	100	105	110
Asp	Ser	Ala	Phe	Glu	Gln	Leu	Asp	Ile	Lys	Ala	Gly	Asn	Ser	Asp	Ser	115	120	125
Glu	Glu	Asp	Asp	Ala	Asn	Gly	Arg	Val	Glu	Leu	Ile	Leu	Glu	Pro	Lys	130	135	140
Asp	Leu	Tyr	Ile	Asp	Arg	Pro	Leu	Pro	Tyr	Leu	Ile	Gly	Ser	Lys	Leu	145	150	155
Phe	Met	Glu	Gln	Glu	Asp	Val	Gly	Leu	Gly	Glu	Leu	Ser	Ser	Glu	Glu	165	170	175
Gly	Ser	Val	Gly	Ser	Asp	Arg	Gly	Ser	Ile	Val	Asp	Thr	Glu	Glu	Glu	180	185	190
Lys	Glu	Glu	Glu	Glu	Ser	Asp	Glu	Asp	Phe	Ala	His	His	Ser	Asp	Asn	195	200	205
Glu	Gln	Asn	Gln	His	Thr	Thr	Gln	Met	Ser	Asp	Glu	Glu	Glu	Asp	Asp	210	215	220
Asp	Gly	Cys	Asp	Leu	Phe	Ala	Asp	Ser	Glu	Lys	Glu	Glu	Glu	Asp	Ile	225	230	235
Glu	Asp	Ile	Glu	Glu	Asn	Thr	Arg	Pro	Lys	Arg	Ser	Arg	Pro	Thr	Ser	245	250	255
Phe	Ala	Asp	Glu	Leu	Ala	Ala	Arg	Ile	Lys	Gly	Asp	Ala	Met	Gly	Arg	260	265	270
Val	Asp	Glu	Glu	Pro	Thr	Thr	Leu	Pro	Ser	Gly	Glu	Ala	Lys	Pro	Arg	275	280	285
Lys	Thr	Leu	Lys	Glu	Lys	Lys	Glu	Arg	Arg	Thr	Pro	Ser	Asp	Asp	Glu	290	295	300
Glu	Asp	Asn	Leu	Phe	Ala	Pro	Pro	Lys	Leu	Thr	Asp	Glu	Asp	Phe	Ser	305	310	315
Pro	Phe	Gly	Ser	Gly	Gly	Gly	Leu	Phe	Ser	Gly	Gly	Lys	Gly	Leu	Phe	325	330	335
Asp	Asp	Glu	Asp	Glu	Glu	Ser	Asp	Leu	Phe	Met	Glu	Ala	Pro	Gln	Asp	340	345	350
Arg	Gln	Ala	Gly	Ala	Ser	Val	Lys	Glu	Glu	Ser	Ser	Ser	Ser	Lys	Pro	355	360	365
Gly	Lys	Lys	Ile	Pro	Ala	Gly	Ala	Val	Ser	Val	Phe	Leu	Gly	Asp	Thr	370	375	380
Asp	Val	Phe	Gly	Ala	Ala	Ser	Val	Pro	Ser	Leu	Lys	Glu	Pro	Gln	Lys	385	390	395

Pro	Glu	Gln	Pro	Thr 405	Pro	Arg	Lys	Ser	Pro	Tyr	Gly	Pro	Pro	Pro	Thr
Gly	Leu	Phe	Asp 420	Asp	Asp	Asp	Gly	Asp 425	Asp	Asp	Asp	Asp	Phe 430	Phe	Ser
Ala	Pro	His 435	Ser	Lys	Pro	Ser	Lys 440	Thr	Arg	Lys	Val	Gln 445	Ser	Thr	Ala
Asp	Ile 450	Phe	Gly	Asp	Glu	Glu 455	Gly	Asp	Leu	Phe	Lys 460	Glu	Lys	Ala	Val
Ala 465	Ser	Pro	Glu	Ala	Thr 470	Val	Ser	Gln	Thr	Asp 475	Glu	Asn	Lys	Ala	Arg 480
Ala	Glu	Lys	Lys	Asp 485	Leu	Phe	Ser	Ser	Gln 490	Ser	Ala	Ser	Asn	Leu 495	Lys
Gly	Ala	Ser	Leu 500	Leu	Pro	Gly	Lys	Leu 505	Pro	Thr	Ser	Val	Ser 510	Leu	Phe
Asp	Asp	Glu 515	Asp	Glu	Glu	Asp	Asn 520	Leu	Phe	Gly	Gly	Thr 525	Ala	Ala	Lys
Lys	Gln 530	Thr	Leu	Ser	Leu	Gln 535	Ala	Gln	Arg	Glu	Glu 540	Lys	Ala	Lys	Ala
Ser 545	Glu	Leu	Ser	Lys	Lys 550	Lys	Ala	Ser	Ala	Leu 555	Leu	Phe	Ser	Ser	Asp 560
Glu	Glu	Asp	Gln	Trp 565	Asn	Ile	Pro	Ala	Ser 570	Gln	Thr	His	Leu	Ala 575	Ser
Asp	Ser	Arg	Ser 580	Lys	Gly	Glu	Pro	Arg 585	Asp	Ser	Gly	Thr	Leu 590	Gln	Ser
Gln	Glu	Ala 595	Lys	Ala	Val	Lys	Lys 600	Thr	Ser	Leu	Phe	Glu 605	Glu	Asp	Lys
Glu	Asp 610	Asp	Leu	Phe	Ala	Ile 615	Ala	Lys	Asp	Ser	Gln 620	Lys	Lys	Thr	Gln
Arg 625	Val	Ser	Leu	Leu	Phe 630	Glu	Asp	Asp	Val	Asp 635	Ser	Gly	Gly	Ser	Leu 640
Phe	Gly	Ser	Pro	Pro 645	Thr	Ser	Val	Pro	Pro 650	Ala	Thr	Lys	Lys	Lys 655	

<210> 331

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 331

Phe Leu Pro Asp His Pro Ala Lys Pro Pro Ser Ser Leu Val His Ser  
1 5 10 15

Pro Phe Val Phe Gly Xaa Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln  
20 25 30

Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn  
                   35                                  40                                  45  
 Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser Leu Ser His Lys  
           50                                  55                                  60  
 Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser  
   65                                  70                                  75                                  80  
 Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu Lys  
                   85                                  90                                  95  
 Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg  
                   100                                  105                                  110  
 Gly Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp  
                   115                                  120                                  125  
 Ala Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro Asn  
   130                                  135                                  140  
 His Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser Ser  
  145                                  150                                  155                                  160  
 Ser Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu His Leu Leu Ser  
                   165                                  170                                  175  
 Gln Arg Leu Ser Gln Gln  
                   180

&lt;210&gt; 332

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 332

Phe Leu Pro Asp His Pro Ala Lys Pro Pro Ser Ser Leu Val His Ser  
   1                                  5                                  10                                  15

Pro Phe Val Phe Gly Xaa Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln  
                   20                                  25                                  30

Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn  
                   35                                  40                                  45

Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser  
   50                                  55                                  60

&lt;210&gt; 333

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 333

Leu Ser His Lys Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser  
   1                                  5                                  10                                  15

Lys Pro Ala Ser Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser  
                   20                                  25                                  30

Arg Ser Leu Lys Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln  
                   35                  40                  45

Lys Lys Pro Arg Gly Thr Glu Ser Leu Ser Ala Ser  
           50                  55                  60

<210> 334

<211> 62

<212> PRT

<213> Homo sapiens

<400> 334

Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser Asp Ser  
   1                  5                  10                  15

His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr Leu Lys  
                   20                  25                  30

Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro Gly Pro  
                   35                  40                  45

Gly Ser Arg Leu His Leu Leu Ser Gln Arg Leu Ser Gln Gln  
           50                  55                  60

<210> 335

<211> 487

<212> PRT

<213> Homo sapiens

<400> 335

Met Val Glu Phe Cys Glu Ser Asp Glu Gly Glu Ala Trp Ser Leu Ala  
   1                  5                  10                  15

Arg Asp Arg Gly Gly Asn Gln Tyr Leu Arg His Glu Asp Glu Gln Ala  
                   20                  25                  30

Leu Leu Asp Gln Asn Ser Gln Thr Pro Pro Pro Ser Pro Phe Ser Val  
                   35                  40                  45

Gln Ala Phe Asn Lys Gly Ala Ser Cys Ser Ala Gln Gly Phe Asp Tyr  
           50                  55                  60

Gly Leu Gly Asn Ser Lys Gly Asp Gln Leu Ser Ala Ile Leu Asn Ser  
   65                  70                  75                  80

Ile Gln Ser Arg Pro Asn Leu Pro Ala Pro Ser Ile Phe Asp Gln Ala  
                   85                  90                  95

Ala Lys Pro Pro Ser Ser Leu Val His Ser Pro Phe Val Phe Gly Gln  
                   100                  105                  110

Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln Lys Ser Pro Ser Arg Asn  
           115                  120                  125

Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn Tyr Gly Val Ala Gly Pro  
   130                  135                  140

Ala Ser Ala Leu Ser Ser Leu Ser His Lys Leu Lys Gly Asp Arg Gly  
   145                  150                  155                  160

Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser Thr Ser Gly Lys Ser Glu  
                   165                  170                  175

Leu Ser Ser Lys His Ser Arg Ser Leu Lys Pro Asp Gly Arg Met Ser  
 180 185 190  
 Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg Gly Thr Glu Ser Leu Ser  
 195 200 205  
 Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser  
 210 215 220  
 Asp Ser His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr  
 225 230 235 240  
 Leu Lys Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro  
 245 250 255  
 Gly Pro Gly Ser Arg Leu Ser Ser Pro Lys Pro Lys Thr Leu Pro Ala  
 260 265 270  
 Asn Arg Ser Ser Pro Ser Gly Ala Ser Ser Pro Arg Ser Ser Ser Pro  
 275 280 285  
 His Asp Lys Asn Leu Pro Gln Lys Ser Thr Ala Pro Val Lys Thr Lys  
 290 295 300  
 Leu Asp Pro Pro Arg Glu Arg Ser Lys Ser Asp Ser Tyr Thr Leu Asp  
 305 310 315 320  
 Pro Asp Thr Leu Arg Lys Lys Lys Met Pro Leu Thr Glu Pro Leu Arg  
 325 330 335  
 Gly Arg Ser Thr Ser Pro Lys Pro Lys Ser Val Pro Lys Asp Ser Thr  
 340 345 350  
 Asp Ser Pro Gly Ser Glu Asn Arg Ala Pro Ser Pro His Val Val Gln  
 355 360 365  
 Glu Asn Leu His Ser Glu Val Val Glu Val Cys Thr Ser Ser Thr Leu  
 370 375 380  
 Lys Thr Asn Ser Leu Thr Asp Ser Thr Cys Asp Asp Ser Ser Glu Phe  
 385 390 395 400  
 Lys Ser Val Asp Glu Gly Ser Asn Lys Val His Phe Ser Ile Gly Lys  
 405 410 415  
 Ala Pro Leu Lys Asp Glu Gln Glu Met Arg Ala Ser Pro Lys Ile Ser  
 420 425 430  
 Arg Lys Cys Ala Asn Arg His Thr Arg Pro Lys Lys Glu Lys Ser Ser  
 435 440 445  
 Phe Leu Phe Lys Gly Asp Gly Ser Gly Ala Phe Arg Ala Ser Gln Ser  
 450 455 460  
 Lys Pro Cys Leu Leu Leu Trp Pro Asn Val Pro Glu Leu Cys Leu Leu  
 465 470 475 480  
 Pro Ser Ser Gly Met Lys Ala  
 485

&lt;210&gt; 336

&lt;211&gt; 526

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 336

Asn	Gly	Tyr	Thr	Glu	Ala	Trp	Cys	Leu	Ser	Phe	Asn	Gln	His	Leu	Gly
1				5					10					15	
Lys	Ser	Leu	Leu	Val	Pro	Val	Asp	Val	Thr	Asn	Ser	Glu	Gly	Thr	Trp
			20					25					30		
Val	Gln	Leu	Asp	Gln	Asn	Ser	Met	Val	Glu	Phe	Cys	Glu	Ser	Asp	Glu
		35					40					45			
Gly	Glu	Ala	Trp	Ser	Leu	Ala	Arg	Asp	Arg	Gly	Gly	Asn	Gln	Tyr	Leu
	50					55					60				
Arg	His	Glu	Asp	Glu	Gln	Ala	Leu	Leu	Asp	Gln	Asn	Ser	Gln	Thr	Pro
65					70					75					80
Pro	Pro	Ser	Pro	Phe	Ser	Val	Gln	Ala	Phe	Asn	Lys	Gly	Ala	Ser	Cys
				85					90					95	
Ser	Ala	Gln	Gly	Phe	Asp	Tyr	Gly	Leu	Gly	Asn	Ser	Lys	Gly	Asp	Gln
			100					105					110		
Leu	Ser	Ala	Ile	Leu	Asn	Ser	Ile	Gln	Ser	Arg	Pro	Asn	Leu	Pro	Ala
		115					120					125			
Pro	Ser	Ile	Phe	Asp	Gln	Ala	Ala	Lys	Pro	Pro	Ser	Ser	Leu	Val	His
	130					135					140				
Ser	Pro	Phe	Val	Phe	Gly	Gln	Pro	Leu	Ser	Phe	Gln	Gln	Pro	Gln	Leu
145					150					155					160
Gln	Lys	Ser	Pro	Ser	Arg	Asn	Leu	Ala	Ser	Arg	Glu	Arg	Ile	Tyr	Lys
				165					170					175	
Asn	Tyr	Gly	Val	Ala	Gly	Pro	Ala	Ser	Ala	Leu	Ser	Ser	Leu	Ser	His
			180					185					190		
Lys	Leu	Lys	Gly	Asp	Arg	Gly	Asn	Ile	Ser	Thr	Ser	Ser	Lys	Pro	Ala
	195						200					205			
Ser	Thr	Ser	Gly	Lys	Ser	Glu	Leu	Ser	Ser	Lys	His	Ser	Arg	Ser	Leu
	210					215					220				
Lys	Pro	Asp	Gly	Arg	Met	Ser	Arg	Thr	Thr	Ala	Asp	Gln	Lys	Lys	Pro
225					230					235					240
Arg	Gly	Thr	Glu	Ser	Leu	Ser	Ala	Ser	Glu	Ser	Leu	Ile	Leu	Lys	Ser
				245					250					255	
Asp	Ala	Ala	Lys	Leu	Arg	Ser	Asp	Ser	His	Ser	Arg	Ser	Leu	Ser	Pro
			260					265					270		
Asn	His	Asn	Thr	Leu	Gln	Thr	Leu	Lys	Ser	Asp	Gly	Arg	Met	Pro	Ser
		275					280					285			
Ser	Ser	Arg	Ala	Glu	Ser	Pro	Gly	Pro	Gly	Ser	Arg	Leu	Ser	Ser	Pro
	290					295					300				
Lys	Pro	Lys	Thr	Leu	Pro	Ala	Asn	Arg	Ser	Ser	Pro	Ser	Gly	Ala	Ser
305					310					315					320
Ser	Pro	Arg	Ser	Ser	Ser	Pro	His	Asp	Lys	Asn	Leu	Pro	Gln	Lys	Ser
				325					330					335	
Thr	Ala	Pro	Val	Lys	Thr	Lys	Leu	Asp	Pro	Pro	Arg	Glu	Arg	Ser	Lys
			340					345					350		

Ser Asp Ser Tyr Thr Leu Asp Pro Asp Thr Leu Arg Lys Lys Lys Met  
 355 360 365  
 Pro Leu Thr Glu Pro Leu Arg Gly Arg Ser Thr Ser Pro Lys Pro Lys  
 370 375 380  
 Ser Val Pro Lys Asp Ser Thr Asp Ser Pro Gly Ser Glu Asn Arg Ala  
 385 390 395 400  
 Pro Ser Pro His Val Val Gln Glu Asn Leu His Ser Glu Val Val Glu  
 405 410 415  
 Val Cys Thr Ser Ser Thr Leu Lys Thr Asn Ser Leu Thr Asp Ser Thr  
 420 425 430  
 Cys Asp Asp Ser Ser Glu Phe Lys Ser Val Asp Glu Gly Ser Asn Lys  
 435 440 445  
 Val His Phe Ser Ile Gly Lys Ala Pro Leu Lys Asp Glu Gln Glu Met  
 450 455 460  
 Arg Ala Ser Pro Lys Ile Ser Arg Lys Cys Ala Asn Arg His Thr Arg  
 465 470 475 480  
 Pro Lys Lys Glu Lys Ser Ser Phe Leu Phe Lys Gly Asp Gly Ser Gly  
 485 490 495  
 Ala Phe Arg Ala Ser Gln Ser Lys Pro Cys Leu Leu Leu Trp Pro Asn  
 500 505 510  
 Val Pro Glu Leu Cys Leu Leu Pro Ser Ser Gly Met Lys Ala  
 515 520 525

<210> 337  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly  
 1 5 10 15  
 Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly Thr Trp  
 20 25 30  
 Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu  
 35 40 45  
 Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu  
 50 55 60  
 Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln Thr Pro  
 65 70 75 80  
 Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala Ser Cys  
 85 90 95  
 Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly Asp Gln  
 100 105 110



<210> 338  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly  
           1                  5                  10                  15  
 Lys Ser Leu Leu Val Pro  
                   20

<210> 339  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Leu Gly Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly  
           1                  5                  10                  15  
 Thr Trp Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser  
                   20                  25                  30  
 Asp Glu Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln  
                   35                  40                  45  
 Tyr Leu Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln  
           50                  55                  60  
 Thr Pro Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala  
           65                  70                  75                  80  
 Ser Cys Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly  
                   85                  90                  95  
 Asp Gln

<210> 340  
 <211> 301  
 <212> PRT  
 <213> Homo sapiens

<400> 340  
 Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser Thr  
           1                  5                  10                  15  
 Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu Lys Pro  
                   20                  25                  30  
 Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg Gly  
                   35                  40                  45  
 Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp Ala  
           50                  55                  60  
 Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro Asn His  
           65                  70                  75                  80  
 Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser Ser Ser  
                   85                  90                  95  
 Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu Ser Ser Pro Lys Pro

100					105					110					
Lys	Thr	Leu	Pro	Ala	Asn	Arg	Ser	Ser	Pro	Ser	Gly	Ala	Ser	Ser	Pro
		115					120					125			
Arg	Ser	Ser	Ser	Pro	His	Asp	Lys	Asn	Leu	Pro	Gln	Lys	Ser	Thr	Ala
	130					135					140				
Pro	Val	Lys	Thr	Lys	Leu	Asp	Pro	Pro	Arg	Glu	Arg	Ser	Lys	Ser	Asp
145					150					155					160
Ser	Tyr	Thr	Leu	Asp	Pro	Asp	Thr	Leu	Arg	Lys	Lys	Lys	Met	Pro	Leu
				165					170					175	
Thr	Glu	Pro	Leu	Arg	Gly	Arg	Ser	Thr	Ser	Pro	Lys	Pro	Lys	Ser	Val
			180					185					190		
Pro	Lys	Asp	Ser	Thr	Asp	Ser	Pro	Gly	Ser	Glu	Asn	Arg	Ala	Pro	Ser
		195					200					205			
Pro	His	Val	Val	Gln	Glu	Asn	Leu	His	Ser	Glu	Val	Val	Glu	Val	Cys
	210					215					220				
Thr	Ser	Ser	Thr	Leu	Lys	Thr	Asn	Ser	Leu	Thr	Asp	Ser	Thr	Cys	Asp
225					230					235					240
Asp	Ser	Ser	Glu	Phe	Lys	Ser	Val	Asp	Glu	Gly	Ser	Asn	Lys	Val	His
				245					250					255	
Phe	Ser	Ile	Gly	Lys	Ala	Pro	Leu	Lys	Asp	Glu	Gln	Glu	Met	Arg	Ala
			260					265					270		
Ser	Pro	Lys	Ile	Ser	Arg	Lys	Cys	Ala	Asn	Arg	His	Thr	Arg	Pro	Lys
		275					280					285			
Lys	Glu	Lys	Ser	Ser	Phe	Leu	Phe	Lys	Gly	Asp	Gly	Ser			
	290					295					300				

&lt;210&gt; 341

&lt;211&gt; 196

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 341

Ser	Gln	Pro	Lys	Gln	Ala	Met	Ser	Pro	Ser	Val	Ala	Glu	Cys	Ala	Arg
1				5					10					15	
Ala	Val	Phe	Ala	Ser	Phe	Leu	Trp	His	Glu	Gly	Ile	Val	Met	Met	His
			20					25					30		
Gly	Leu	Ser	Ser	Phe	Leu	Lys	Phe	His	Pro	Glu	Leu	Ser	Lys	Glu	His
		35					40					45			
Ala	Pro	Ile	Arg	Ser	Ser	Leu	Asn	Ser	Gln	Gln	Pro	Thr	Glu	Glu	Lys
	50					55					60				
Glu	Thr	Lys	Leu	Glu	Asn	Arg	His	Ser	Leu	Glu	Ile	Ser	Ser	Ala	Leu
	65				70					75					80
Asn	Met	Phe	Asn	Ile	Ala	Pro	His	Gly	Pro	Asp	Ile	Ser	Lys	Met	Gly
				85				90						95	
Ser	Ile	Asn	Lys	Asn	Lys	Val	Leu	Ser	Met	Leu	Lys	Glu	Pro	Pro	Leu
			100					105					110		

His Glu Lys Cys Glu Asp Gly Lys Thr Glu Thr Thr Phe Glu Met Ser  
           115                                  120                                  125  
 Met His Asn Thr Met Lys Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln  
           130                                  135                                  140  
 His Leu Val Ala Phe Trp Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala  
 145                                  150                                  155                                  160  
 Ala Ser Gln Asn Met Ile Phe Pro Ser Pro Gly Ser Cys Ala Val Leu  
                                   165                                  170                                  175  
 Lys Lys Lys Glu Cys Glu Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys  
                                   180                                  185                                  190  
 Lys Lys Lys Lys  
                                   195

<210> 342  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 342  
 Met Ser Pro Ser Val Ala Glu Cys Ala Arg Ala Val Phe Ala Ser Phe  
   1                                  5                                  10                                  15  
 Leu Trp His Glu Gly Ile Val Met Met His Gly Leu Ser Ser Phe Leu  
                                   20                                  25                                  30  
 Lys Phe His Pro Glu Leu Ser Lys Glu His Ala Pro Ile Arg Ser Ser  
                                   35                                  40                                  45  
 Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys Glu Thr Lys Leu Glu Asn  
                                   50                                  55                                  60  
 Arg His Ser Leu Glu Ile Ser Ser Ala Leu Asn Met Phe Asn Ile Ala  
   65                                  70                                  75                                  80  
 Pro His Gly Pro Asp Ile Ser Lys Met Gly Ser Ile Asn Lys Asn Lys  
                                   85                                  90                                  95  
 Val Leu Ser Met Leu Lys Glu Pro Pro Leu His Glu Lys Cys Glu Asp  
                                   100                                  105                                  110  
 Gly Lys Thr Glu Thr Thr Phe Glu Met Ser Met His Asn Thr Met Lys  
                                   115                                  120                                  125  
 Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln His Leu Val Ala Phe Trp  
                                   130                                  135                                  140  
 Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala Ala Ser Gln Asn Met Ile  
 145                                  150                                  155                                  160  
 Phe Pro Ser Pro Gly Ser Cys Ala Val Leu Lys Lys Lys Glu Cys Glu  
                                   165                                  170                                  175  
 Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys Lys Lys Lys Lys  
                                   180                                  185                                  190

<210> 343  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 343

Lys Gln Ala Met Ser Pro Ser Val Ala Glu Cys Ala Arg Ala Val Phe  
 1 5 10 15

Ala Ser Phe Leu Trp His Glu Gly Ile Val  
 20 25

&lt;210&gt; 344

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 344

Ser Ser Phe Leu Lys Phe His Pro Glu Leu Ser Lys Glu His Ala Pro  
 1 5 10 15

Ile Arg Ser Ser Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys Glu Thr  
 20 25 30

Lys Leu Glu Asn Arg His Ser Leu Glu Ile Ser Ser Ala Leu Asn Met  
 35 40 45

Phe Asn Ile Ala Pro His Gly Pro Asp Ile Ser Lys Met Gly Ser Ile  
 50 55 60

Asn Lys Asn Lys Val Leu Ser Met Leu Lys Glu Pro Pro Leu His Glu  
 65 70 75 80

Lys Cys Glu Asp Gly Lys Thr Glu Thr Thr Phe Glu Met Ser Met His  
 85 90 95

Asn Thr Met Lys Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln His Leu  
 100 105 110

Val Ala Phe Trp Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala Ala Ser  
 115 120 125

Gln Asn Met Ile Phe Pro Ser Pro Gly Ser Cys Ala Val Leu Lys Lys  
 130 135 140

Lys Glu Cys Glu Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys Lys Lys  
 145 150 155 160

Lys Lys